

Adhesive Technology



Adhesive Technology

The well-known techniques of the past for fixing objects together mechanically with screws, nails, staples and rivets is no longer necessary today.

The bonding of "Joining Parts", which is the name given to the two objects held together with glue in adhesive technology, is simplified by the use of a liquid adhesive. It is particularly advantageous in that the two objects are not damaged and remain more durable when considered statically. Using adhesives also results in such diverse materials such as glass, plastic or metal being easily stuck together which was not possible using the previously existing method.

In view of an increased awareness of the environment, the use of eco-adhesives is recommended. This offers an additional advantage: the joining parts can easily be returned back into the recycling loop after use. The use of different adhesive systems and their composition or nature, when considering the usable parts to be joined, however, requires an in-depth technical know-how.

That's why you will find important instructions on all of our adhesive products that show which materials can be bonded with which product. You will also find out information on whether it is a water-based adhesive or possibly even ecologically manufactured or contains synthetic additives such as solvents, alcohol, synthetic resins or silicone.

All our adhesive products are manufactured in accordance with DIN EN 923:

„Adhesive is a non-metallic material, that bonds materials together by surface adhesion (adhesion) where these bonds have a sufficient internal strength (cohesion).“

In order to realise this, the adhesive must have two properties:

- It must be liquid to coat the bonding surfaces so that it adhere well. This property is referred to as „adhesion“ in Adhesive Technology .
- It must have an internal strength which is described by the term „cohesion“ (lat. join together). This characteristic usually only develops as the adhesive cures/hardens.



Adhesive overview

Physically bonding

- Wet adhesives
- Dispersion Adhesives
- Solvent based adhesives
- Contact Adhesives
- Melt adhesives
- Powder adhesive (mortar)

Chemical Cure

Polyaddition

- Epoxy resins
- Polyurethane
- Silicone

Polymerization

- methyl methacrylate
- Cyacrylate
- Anoeerbe adhesives
- Unsaturated polyester sensitive adhesive)
- Acrylates
- UV adhesives
- Epoxides

Polycondensation

- Silicone
- Polymer Adhesives
- Phenolic resins
- PSAs (pressure-

You will find most of the adhesive products mentioned here within the CREARTEC Adhesive Technology range as specialty adhesives, which are particularly well suited for a specific application technology. The program contains predominantly organic adhesives and we distinguish between pastes and glues based on the content material, while adhesive materials are referred to as adhesives based on their synthetic composition.

Pastes

These are organic adhesives that are produced out of renewable resources as an water-based source products from starch (potatoes, corn, wheat, tapioca, cassava = adhesive protein) and cellulose ether (wood = methyl cellulose): wood glue, wallpaper paste, paper glue.

Glues

Glues are water-based adhesives and consist of protein (Gluteine) which are produced out of animal, vegetable or synthetic raw materials, for example, bone = bone glue, hide = hide glue, milk = casein glue. This produces rubbery, elastic adhesive materials. According to a new definition (DIN 16921), the term glue as an adhesive material based on animal proteins has also been extended to vegetable (pastes) and synthetic adhesives.

Adhesives

Earlier, synthetic adhesives or organic adhesives that have been blended with synthetic additives were declared as adhesives. As a result of the variety of newly developed products, in this group, 2-component adhesives materials are outlined, for example, epoxy, etc..

Materials for gluing

as of side:

- 4 Paper, cardboard and other paper materials
- 17 Wood, cork and other natural materials
- 20 Textile bonds
- 24 Bonding rubber and leather
- 25 Natural and artificial stones
- 33 Adhesives for the model, diorama and nativity scene construction
- 35 Special adhesive
- 38 Glass and metal foil
- 40 Effective handicrafts
- 45 Explanation of terms



Adhesive Depot

You will find in this small adhesive display the most important practical helper (glue) that is offered in this extraordinary adhesive program,. It contains adhesives for a variety of adhesive and repair work in kindergarten, at school, at home or in the office. Furthermore, in the domestic "home workshop". Adhesives that are always needed: now, today, forever

All-purpose adhesive (solvent-free)	6 pieces à 30 g
Quickly-Fast Adhesive	6 pieces à 30 g
Speedy-wood glue	6 pieces à 30 g
Gemstone glue	6 pieces à 40 g
Magnetic paint (PSA)	6 pieces à 30 g
Universal fabric glue	6 pieces à 30 g



Which glue is best for which kind of paper?

To take the pain out of choice, we tested various paper qualities and in this table below we have outlined for which types of bonding each adhesive is best suited. We hope that this is a valuable aid in selecting the right adhesive for your needs.

Adhesive Paper- Carton	Contents: g	77 614 Photo adhesive	77 661 Univ. - Paper glue	77 671 Petal ball adhesive	77 681 Eco children's glue	77 686 Eco-paste	77 702 Transp.handicraft paste	77 706 Kontakt contact glue	77 711 Transp. Paper glue	77 752 Water-based picture paste	77 776 Decoupage glue	77 795 All-round adhesive	77 801 Picture puzzle adhesive	77 827 Bookbinding paste	77 831 Dry-bond adhesive	77 835 Dry-bond and assembly spray adhesive	77 836 Quickly-Quick adhesive	77 851 Felt glue	77 875 Spray adhesive	77 901 Laser cut adhesive	77 940 School handicraft paste	77 945 Cellcol wallpaper paste	77 951 Children's adhesive	77 956 Universal handicraft paste	77 971 Setting adhesive	77 977 Nativity scene construction paste	
		Backing (Tetra Pack)	280	•	•						•																
File folder box	220		•						•																•	•	•
Aluminum craft paper	90							•							•	•				•							
Aluminum composite foil	135						•								•	•				•							
Architect paper	80/115								•											•							
Aqua paper	65		•			•	•		•								•			•							
Banana paper	35																			•							
Handicraft paper	50								•	•							•			•							
Bast paper	60 - 100		•														•			•					•	•	•
Waterslide decals	12		•	•																•					•	•	•
Beer mats/card	600																			•					•	•	•
Art paper	90 - 400																			•					•	•	•
Biplast plastic box	385							•							•	•											
Silk flowers	20																			•							
Bristol board	246 - 924		•																		•					•	•
Book binder hard paper	1000 - 3000		•																		•					•	•
Book cover foil	80							•	•											•						•	•
Handmade paper	100																			•						•	•
Handmade cardboard	340		•																	•						•	•
Colored paper	80 - 100			•		•	•					•	•				•	•		•		•	•	•	•	•	•
Canvas (canvas)	330		•							•										•							
Cellophane	24 - 60																										
Chromolux cardboard	250		•			•	•													•						•	•
Colour cardboard	630		•																	•						•	•
Decoupage	20						•	•				•	•							•			•	•	•	•	•
Display cardboard	1400		•																			•				•	•
Dragon paper	42									•										•							
Duplex-/Chromolux cardboar	600		•																	•						•	•
Carbonless paper	40					•				•										•					•	•	
Elephant skin paper	130						•			•										•						•	•
Folding paper/leaf	70		•	•		•				•										•						•	•
Fiber silk	110 - 375																			•							
Fine cardboard	250		•	•			•													•						•	•
Filter paper	60		•	•																•						•	•
Velvet/velour paper	260																			•							
Bending/Froebel star paper	80																			•							
Froebel strip paper	120			•																•							
Photo cardboard/boxboard	300	•	•						•	•					•	•				•						•	•
gift wrap paper	65			•		•	•			•	•									•						•	•
Glossy Paper (gummed)	80		•					•	•											•						•	•
Glitter card	300		•																	•						•	•
Glitter paper/paperboard	80 - 120																			•						•	•
Gray cardboard	1200-3000			•																•						•	•
Glossy paper	120		•							•										•							
Hologram foil	2																			•							
Hologram cardboard	230							•	•						•	•				•		•	•			•	•
Hygiene paper	40					•	•													•			•	•	•	•	•
Japan lamp paper	48																			•							
Japan-/Straw paper	25									•										•							
Carton	220 - 300		•																	•						•	•
Ribbed cardboard	220		•																	•						•	•
Handicraft paper	150								•	•										•						•	•
Sack craft paper	70 - 90		•						•	•										•						•	•
Creative cardboard (metallic)	200																			•						•	•
Crepe paper	32 und 80								•	•										•						•	•
Crepe paper (metallic)	60/80								•											•						•	•

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		Lantern paper	42								*							*	*		*						
Laser cut carton	1230 + 1845								*					*			*		*		*					*	*
lantern cardboard	150								*				*				*		*		*				*	*	
Leather paper	250											*	*				*		*		*				*	*	
linen carton	270	*											*				*		*		*				*	*	
Metalized Paper	80						*	*				*	*			*	*		*		*				*	*	
Metallic cardstock	300							*				*	*			*	*		*		*				*	*	
Mineral paper	110 - 250	*	*						*				*	*			*	*		*		*			*	*	
Modelling card	250	*					*		*			*	*			*	*		*		*				*	*	
Museum card	300	*					*		*			*	*			*	*		*		*				*	*	
Kraft paper	75								*			*	*			*	*		*		*				*	*	
Nature paper	100	*	*									*	*			*	*		*		*			*	*		
Natural cardboard	250	*					*		*			*	*			*	*		*		*				*	*	
Niflamokrepp	42								*			*	*			*	*		*		*				*	*	
Offset printing paper	80 - 120	*					*		*			*	*			*	*		*		*				*	*	
Origami papier/folding leaves	65	*	*				*		*			*	*			*	*		*		*				*	*	
Pack kraft paper	100 - 150							*	*			*	*			*	*		*		*				*	*	
Paper mosaic	70	*	*				*	*			*	*			*	*		*		*		*			*	*	
Paper mosaic (metallic)	80						*	*			*	*			*	*		*		*		*			*	*	
Ripped paper	110	*							*			*	*			*	*		*		*				*	*	
Paper viles	60 - 80	*							*		*	*			*	*		*		*		*			*	*	
board pieces	200-300	*				*			*			*	*			*	*		*		*			*	*		
Papyrus	60 - 100						*	*				*	*			*	*		*		*			*	*		
passepartout carton	300						*		*			*	*			*	*		*		*				*	*	
parchment	90							*				*	*			*	*		*		*				*	*	
pergamin	42	*						*				*	*			*	*		*		*				*	*	
Poster board	380						*		*			*	*			*	*		*		*				*	*	
Plotter card	400						*		*			*	*			*	*		*		*				*	*	
Poetry photos						*	*	*				*	*			*	*		*		*				*	*	
Stamping foils	200						*		*			*	*			*	*		*		*				*	*	
Embossed cardboard	220						*		*			*	*			*	*		*		*				*	*	
Pressboard (waste paper)	575	*							*			*	*			*	*		*		*				*	*	
Puzzle	800								*			*	*			*	*		*		*				*	*	
Quartet carton	250 - 350	*					*		*			*	*			*	*		*		*				*	*	
Recycled paper (recycled pap	80	*				*	*		*			*	*			*	*		*		*				*	*	
Rice paper	250	*							*			*	*			*	*		*		*				*	*	
Stencil cardboard	110					*	*		*			*	*			*	*		*		*				*	*	
Scissors cut paper	80					*	*		*			*	*			*	*		*		*				*	*	
Cornet / photo board	300								*			*	*			*	*		*		*				*	*	
tissue paper	20								*			*	*			*	*		*		*				*	*	
napkin paper	25								*			*	*			*	*		*		*				*	*	
Mirror paper	240	*					*		*			*	*			*	*		*		*				*	*	
Playing card board	280 - 390						*		*			*	*			*	*		*		*				*	*	
Straw paper	130		*						*			*	*			*	*		*		*				*	*	
Mulberry paper (folded paper	25								*			*	*			*	*		*		*				*	*	
Structure design card	250					*	*		*			*	*			*	*		*		*				*	*	
Synthetic paper	77	*					*		*			*	*			*	*		*		*				*	*	
Tabled paper	60	*	*			*	*		*			*	*			*	*		*		*				*	*	
Wallpapers	120, 150, 250					*	*		*			*	*			*	*		*		*				*	*	
Tissue paper	25						*	*				*	*			*	*		*		*				*	*	
Toilet paper	150					*			*			*	*			*	*		*		*				*	*	
Construction carton	220	*							*			*	*			*	*		*		*				*	*	
Construction paper	130 + 160					*			*			*	*			*	*		*		*				*	*	
Tracing paper	42								*			*	*			*	*		*		*				*	*	
Tracing paper	115								*			*	*			*	*		*		*				*	*	
Velour cardboard	260	*							*			*	*			*	*		*		*				*	*	
Verstärkungspappe	600+1200	*							*			*	*			*	*		*		*				*	*	
Wabenpapier	131						*		*			*	*			*	*		*		*				*	*	
Wachspapier	150	*					*		*			*	*			*	*		*		*				*	*	
Corrugated cardboard	275	*					*		*			*	*			*	*		*		*				*	*	
Corrugated cardboard 3-D	480	*					*		*			*	*			*	*		*		*				*	*	
Corrugated metallic	600					*	*		*			*	*			*	*		*		*				*	*	
Drawing/photo card	120		*		*	*	*		*			*	*			*	*		*		*				*	*	
Newsprint	50					*	*		*			*	*			*	*		*		*				*	*	
Cellulose	150								*			*	*			*	*		*		*				*	*	
Cigarette paper	10								*			*	*			*	*		*		*				*	*	

Paper, Cardboard and Other Paper Materials

Kids adhesive paste

Only natural ingredients are used in the processing of this child-friendly paste. For this reason, the sugar-based juice „Gum Arabic“, extracted from the plant *Acacia senegal*, is used as a water-soluble base medium. This is important if children accidentally swallow the adhesive. Gum Arabic is classified as a natural, well-tolerated substance that does not cause any damage to health. The paste is environmentally and ecologically compatible. Remnants of which can easily be removed from hands and washed out of clothing with water. And so that children nevertheless still do not come into contact with the paste, the bottle is equipped with a handy glue-spreader closure through which the paste flows directly onto the adhesive surface and then is distributed with it.

Product Features:

Medium viscosity, easily spreadable glue for children aged from 3 years.

Colouring:

Children's adhesive paste is transparent blue, dries colourless and odourless.

Scope of Application:

So that paper and cardboard surfaces can be glued together and then covered with the paste so that tinsel, scraps of paper, decorative flakes etc. can be spread and glued to it.

Adhesive Substance:

Water-based paste dispersion based on natural ingredients (Gum Arabic).

Curing:

Gluing takes place within 10-20 minutes and after completion of curing after about 60 minutes already able to function under pressure.

- pH-Value: 6,5
- No marking required
- Consumption: 60–70 g/m²
- **CE** Meets the requirements of EN 71



77 951	Kids adhesive paste	50 g	Plastic bottle with glue-spreader closure	PE 6
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Handicraft Glue for Pupils

Transparent, solvent-free, ready-to-use immediately special adhesive manufactured on the basis of an adhesive-active methyl cellulose. The paste is completely pollution-free and odourless, so it can be applied directly from the bottle. Handicraft paste for school children is characterized by good initial adhesion and a strong adhesive force. It can also be used in the 2-dimensional gluing of offset and photo paper. The thin liquid paste flows well and may be distributed well with a soft brush, which also allows the gluing of scattering and decorative material.

And because the handicraft paste for school children is so versatile and as a result very popular with users, the paste is supplied to schools in a 5 kg container along with a convenient pouring spout and 20 empty 100 ml-bottles and practical adhesive fasteners .

Product Features:

High-quality, paste emulsion easily applied and used by children, which also can easily be washed out of fabrics and during as well as after use is completely odourless.

Colouring:

White-yellowish, dries semi-transparent.

Scope of Application:

Solid gluing of paper, cardboard, natural materials (Straw, cork, jute, textiles, etc.).

Adhesive substance:

Manufactured based on a methyl cellulose, in connection with a gelatin and polyvinyl acetate.

Curing:

Excellent initial adhesion with good possibilities of correction in the area of the bond.

- pH-Value: 6,2
- No marking required
- Consumption: 65–75 g/m²



77 940	Handicraft Glue for Pupils	100 g	Plastic bottle with glue-spreader closure	PE 6
77 941	Handicraft Glue for Pupils	250 g	Plastic bottle with wide nozzle closure	PE 6
77 944	Handicraft Glue for Pupils	5 kg	Plastic bottle*	PE 1

* Comes with a practical pouring spout and 20 empty 100 ml-bottles.

Natural Eco-friendly Glue

This natural paper paste glues paper with paper and cardboard within a short period of time. And it goes without saying that textiles and materials such as cork, wood and other natural materials can be securely glued together. Eco-paper paste is free from harmful substances, can therefore be used by children, school kids as well as anybody who wants a natural and also inexpensive gluing solution.

- Product Features:** Medium viscosity, spreads well, pollution-free Eco-adhesive.
- Colouring:** The adhesive material is milky-white and hardens white.
- Scope of Application:** Inexpensive paper adhesive, and quickly and reliably bonds cardboard, wood and textiles.
- Adhesive substance:** Natural adhesives, produced on the basis of corn and potato starch - completely free of harmful substances. It can be regenerated at any time.
- Curing:** The adhesive bond occurs within 20 to 40 seconds and is completed and able to function under pressure after 30–50 minutes.

- pH-Value: 7,8
- No marking required
- Consumption: 55–65 g/m²
- Meets the requirements of EN 71



77 686	Natural Eco-friendly Glue	100 g	Plastic bottle with glue-spreader closure	PE 6
77 687	Natural Eco-friendly Glue	250 g	Plastic tin	PE 6

Manger glue

This paste, having an elasticity after curing/hardening, is used for handicraft constructions of miniature models, nativity scenes, landscapes or Diorama constructions. Due to its low viscosity it is well-suited for covering areas on which tinsel, sawdust, scraps of paper, flocking, decorative flakes, small stones (gravel) and sand need to be scattered and glued.

- Product Features:** Universal paste with faster initial adhesion for secure, resilient adhesions.
- Colouring:** Greenish-yellow adhesive liquid that hardens transparent after hardening.
- Scope of Application:** Gluing of a variety of materials such as wood with wood, cardboard, plaster, stone, styrofoam, wood chips, powdered cork and other natural materials.
- Adhesive substance:** Thermoplastic paste prepared on a water-based resin dispersion consisting of butoxyethoxyethyl acetate .
- Curing:** The paste has a rapid initial adhesion, that then leads to an immediate, stringing/threading-free bond and which is completed after only 20 minutes.

- pH-Value: 4,5
- No marking required
- Consumption: 90–100 g/m²



77 977	Manger glue	250 g	Plastic bottle with wide nozzle closure	PE 6
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Scenery - Adhesive Powder

For the scene and set design construction a stable, fast-acting special glue is used that provides a firm and secure bonding. This is important, because here large areas (laminates) have to be glued together. It must be slow-acting in its adhesive characteristic so as to leave sufficient time for corrective work, for example, to make possible a precise sliding together of the adhesive tracks. This is especially important when working with large paper surfaces in stage design and construction. For this reason, this glue, made from adhesive-active methyl cellulose, is used.



- Mixing ratio:** 10 g Powder und 200 g/ml Water
- Product Features:** Powdered substrate is mixed with water and then is available as a gel-like, well-spreading adhesive for a solid bonding of paper and cardboard.
- Colouring:** Yellowish, when mixed with water has a gel-like consistency, semi-transparent.
- Scope of Application:** Bonding of large paper and cardboard rails, fabric, linen, felt, jute on chipboard, styrodur and styrofoam boards, etc..
- Adhesive substance:** Powdered adhesive based on a high-butoxyethoxy ethyl acetate mixed with polyvinyl acetate and methyl hydroxy cellulose.
- Curing:** The adhesive coating hardens within 20 minutes and reaches their final hardness after 30-60 minutes which depends on the humidity and the environmental temperature.

- pH-Value: 7,8
- No marking required
- Consumption: 70–80 g/m²



77 972	Scenery - Adhesive Powder	200 g	Plastic bucket	PE 6
77 973	Scenery - Adhesive Powder	400 g	Plastic bucket	PE 3

Cellcoll Wallpaper Glue

The fine cellulose powder is mixed directly with the agitated water and immediately thickens into a gel-like paste which is suitable for a wide range of adhesive work. It is especially well-suited for paper and thin cardboard. In addition, it can produce a smooth, well-malleable papier maché within a few minutes when mixed with paper materials and cellulose fibres. The pack comes with detailed compositions and set of instructions.



- Mixing ratio:** Cellcoll 30–60 g und 1 l kaltes Wasser.
- Product feature:** Powdery instant adhesive that is mixed with water.
- Colouring:** White-yellowish.
- Scope of Application:** Bonding of paper with paper, cardboard, wood, also on wall surfaces etc. gluing of structure design on wooden boxes, picture frames etc..
- Adhesive substance:** Viscous, gel glue (polyvinyl acetate), pollutant-free, easy to apply - therefore also well-suited for gluing activities carried out by children.
- Curing:** The bond is immediate and is completed after 60 to 90 minutes.

- pH-Value: 7,4
- No marking required
- Consumption: 70–80 g/m²



77 945	Cellcoll Wallpaper Glue	100 g	Plastic bucket	PE 6
77 946	Cellcoll Wallpaper Glue	250 g	Plastic bucket	PE 6
77 947	Cellcoll Wallpaper Glue	450 g	Plastic bucket	PE 6

Hydrous Picture Glue

Transparent adhesive, with which drawings, pictures, written documents and posters can be glued on to any smooth, non-absorbent base surface. After the paste has dried, these paper products can be pulled off at any time, leaving no residue and undamaged and without any re-moistening. This application has proven itself especially well in Kindergartens and Schools, because these written documents/posters or paper images then can be used removed and used again.

- Product Features:** Low-viscosity, water-based glue, suitable for children aged from 3 years.
- Colouring:** Turquoise, transparent, colourless after curing/hardening.
- Scope of Application:** Makes an adhesive bond of the paper to smooth base surfaces, in addition to non-absorbent surfaces such as walls and painted surfaces, tiles, windows, closet doors, panels, metal and plastic surfaces.
- Adhesive substance:** Highly diluted, flows well, water-based dispersion.
- Curing:** The glue has a quick initial adhesion (1-2 minutes) which then leads to a solid adhesion within 20-30 minutes and which can be ended at any time by simply removing the adhesive part.
- Bonding:** Apply a narrow (about 1 cm wide) adhesive layer to the paper surface - top and bottom, (sufficient for the perfect sticking).



- pH-Value: 8,1
- No marking required
- Consumption: 60–70 g/m²

77 752	Hydrous Picture Glue	250 g	Plastic tin	PE 6
77 754	Hydrous Picture Glue	1000 g	Plastic tin	PE 6

All-round Crafter's Glue

The reason why this adhesive is so often used, is not only because it glues all types of paper and wood quickly and safely but is also inexpensive. It is therefore used in kindergartens, schools and handicraft groups as universally usable adhesive. This adhesive can also realize complex and time-consuming cardboard gluing problems. As a result of its universal application possibilities, it is not only available in small containers, but also as a school pack in a 5 kg cannister which is supplied with a practical pouring lip and 20 portion bottles with practical adhesive fasteners.

- Product Features:** Inexpensive, odourless, water-based washable adhesive dispersion.
- Colouring:** White dries to transparent.
- Scope of Application:** Gluing paper, cardboard (cardboard model construction), wood and cork.
- Adhesive substance:** Medium viscosity, easily applicable bonding adhesive produced on the basis of a dispersion of polyvinyl acetate and acrylic acid ester.
- Curing:** The glue has a fast-acting initial adhesion (2-3 minutes), and requires a curing time of about 30-60 minutes.



- pH-Value: 4,2
- No marking required
- Consumption: 50–65 g/m²



77 956	All-round Crafter's Glue	100 g	Plastic bottle with thin nozzle closure	PE 6
77 957	All-round Crafter's Glue	250 g	Plastic bottle with thin nozzle closure	PE 6
77 959	All-round Crafter's Glue	5 kg	Plastic Canister*	PE 1

* Together with a drain cock, 20 plastic bottles each 100 ml – comes complete with practical drawing/painting nozzle closure

U3 - organic kids glue

This thick glue paste is produced on the basis of gluten mixed with maltodextrin so that this adhesive can be used in complete safety by children under three years, naturally by children in kindergarten and preschool. For this reason, the bottle also has a rubber glue-spreader closure, through which the viscous glue can be easily pushed out and easily spread. With this adhesive, paper can be glued with paper or cardboard. Any resulting contamination on clothing can be easily washed away with water. Should the glue be put into the mouth or swallowed by a child accidentally, it has no adverse consequences to health as the glue is manufactured on the basis of hygiene of foodstuffs. These criteria are fully taken into account when mixing and filling.

Product Features:

Simple, natural-based, modified according to the guidelines of hygiene of foodstuffs, quick-drying Eco-glue.

Colouring:

Yellowish transparent, discoloured after curing and becomes glassy.

Scope of Application:

Adhesive for children under 3 years of age or older.

Adhesive substance:

Ecological glue, consisting of a mixture of Maltodextrin and gluten.

Curing:

Initial adhesion after 3-5 minutes. Bonding takes place after 30-40 minutes.

- pH-Value: 6,5
- No marking required
- Consumption: 60–70 g/m²
- Meets the requirements of EN 71

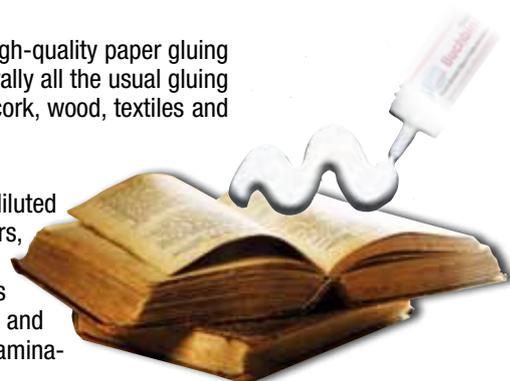


77 681	U3 - organic kids glue	50 g	Plastic bottle with glue-spreader closure	PE 6
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Book Binder Glue

Original bookbinding glue - made from an old family recipe. The glue is used for high-quality paper gluing (scrapbooking, Lumbeck gluing, as a photo glue, also for gluing book spines. Naturally all the usual gluing work can be made with this adhesive where paper is glued to paper, cardboard, cork, wood, textiles and styrofoam.

- Alongside repair and restoration work on book spines, it is also suited to, in a diluted consistency (max. up to 10% water mix) laminating on fabrics for book covers, for preparing painting undercoats on painting canvases, painting stretchers (looms), and for gluing speciality papers such as rice and fibre paper. With this adhesive, dried flowers and grasses can be glued into herbariums or flower and plant pictures can be produced, which additionally then can be over-coated (laminated) with ultra fine surface tissue (52 366).
- Also ideal as a gloss paste, for example, to varnish self-painted pictures with crayons, chalks or casein paint. Self-painted Obladens can be painted so just as beautiful decals are exactly produced as the classical models (scrapbook pictures).



Product Features:

Water-based, shiny book glue paste with a pleasant odour, is and remains flexible after drying.

Colouring:

White, dries transparent - invisible.

Scope of Application:

Repair and restoration of books and cardboard constructions.

Adhesive substance:

Medium viscosity glue (polyvinyl acetate) with faster initial adhesion. It is non-yellowing due to a UV additive.

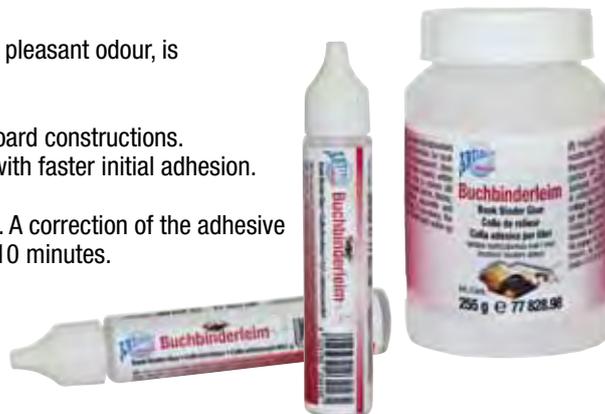
Curing:

Bonding takes place within 30-60 minutes. A correction of the adhesive parts can be made at any time in the first 10 minutes.

- pH-Value: 4,5
- No marking required
- Consumption: 65–75 g/m²

98
matt

99
glossy



77 825	Book Binder Glue	30 g	Pen Bottle with painting nozzle closure	PE 6
77 827	Book Binder Glue	100 g	Pen Bottle with painting nozzle closure	PE 6
77 828	Book Binder Glue	250 g	Plastic tin	PE 6

Transparent handcraft glue

Affordable glue (white paste), prepared on the basis of a thin liquid polymer emulsion, which is well-suited for the bonding of handcraft materials. Also materials such as glitter, flock, decorative flakes and small glass balls/marbles can be scattered on a thinly-applied adhesive layer and can form a firm bond. The product is free of harmful substances and is suitable for children.

- Product Features:** Water-based adhesive - suitable for children from 3 years of age.
- Colouring:** White - becomes transparent after curing.
- Scope of Application:** Bonding paper, cardboard, aqua paper, cork, wood, aluminium composite film and textiles.
- Adhesive substance:** Water-based polymer dispersion (polyvinyl acetate) mixed with aliphatic alcohol.
- Curing:** The bonding takes place within 3 minutes and ended after 60 minutes. It remains elastic.

- pH-Value: 5,0
- No marking required
- Consumption: 75–85 g/m²



77 702	Transparent handcraft glue	250 g	Plastic bottle with wide nozzle closure	PE 6
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Decoupage Glue

Medium viscosity paper paste with a good flow characteristic onto paper surfaces. Excellently suitable for good planar bonding of decoupage paper and structure-design on paper masché figurines and formed parts, cardboard surfaces, cards, cardboard and wooden boxes. The paper, coated with the glue, lies flat and bubble-free to the base surface and adheres to it firmly, and thus forms a uniformly smooth surface.

- Product Features:** Medium viscosity, manufactured with a good flow-out characteristic, watery, odourless neutral lamination glue.
- Colouring:** White, becomes transparent after complete drying.
- Scope of Application:** Bonding of paper, paperboard and cardboard absorbent substrates.
- Adhesive substance:** Dispersion based on a homopolymer vinyl acetate and water.
- Curing:** The glue is characterized by a bubble-free gluing, an initial quick-drying and secure adhesive properties.

- pH-Value: 6,5
- No marking required
- Consumption: 90–110 g/m²



77 776	Decoupage Glue	100 g	Plastic tin	PE 6
77 777	Decoupage Glue	250 g	Plastic tin	PE 6

Universal Paper glue

Certainly one of the most versatile adhesives that not only firmly and securely glues paper and cardboard but also paper and cardboard with wood, textiles, stone, leather, cork and styrofoam. The adhesive has a very fast adherability that makes a particularly positive impact in model building and structure construction when bonding because the joins of the adhesive parts here must be done quickly and efficiently.

- Product Features:** Lightly viscous, milky white glue with an immediate adhesive action and a faster, stronger bonding, that is completed within 30-60 minutes.
- Colouring:** Milky-white – changes colour during curing and is then crystal clear.
- Scope of Application:** Universal bonds with different materials.
- Adhesive substance:** Copolymer dispersion prepared on the basis of vinyl acetate.
- Aushärtung:** The adhesive parts immediately adhere firmly together while the adhesive is safely completed after 20-30 minutes.

- pH-Value: 7
- No marking required
- Consumption: 120–130 g/m²



77 651	Universal Paper Glue	50 g	Plastic bottle with glue-spreader closure	PE 6
77 652	Universal Paper Glue	100 g	Plastic bottle with glue-spreader closure	PE 6

All purpose glue

Low-viscosity, solvent-free universal adhesive, with which paper, cardboard, wood, polystyrene, textiles etc. can be glued quickly and permanently. Because of its universal use possibilities, it really glues anything together. The bonds can hardly be seen after drying as the adhesive substance becomes transparent in curing.

Product Features:

Universal, medium viscosity multi-purpose adhesive with a quick bonding and curing. Bonding is thread-free.

Colouring:

Off-white, becomes transparent clear after drying and curing.

Application:

Bonds paper, cardboard, wood, cork, raw ceramic, polystyrene, natural materials and leather.

Adhesive Substance:

Dispersion adhesive on the basis of 2-butoxyethoxy-ethyl acetate.

Curing:

The initial adhesion is immediate, while the curing is completed after 20-30 minutes.

- pH-Value: 7,1
- No marking required
- Consumption: 70–80 g/m²



77 795	All-purpose glue	30 g	Pen Bottle with painting nozzle closure	PE 6
77 797	All-purpose glue	100 g	Plastic bottle with painting nozzle closure	PE 6

Quickly-Fast Adhesive

High quality, solvent-free adhesive that is used when a bond has to occur quickly. As an example, it glues paper with paper or cardboard within 15 seconds. Therefore it is well-suited for fast bondings whereby paper, cardboard, wood, cork, polystyrene and textiles are firmly bonded. The joint parts are firmly pressed for a short time after the adhesive application. This sufficient to achieve a strong and durable bond, which then cures only 20 minutes later.

Product Features:

Quick adhesive, adhesive-effective special adhesive.

Colouring:

White, becomes transparent after curing has completed.

Application:

Bonding paper, wooden materials and textiles.

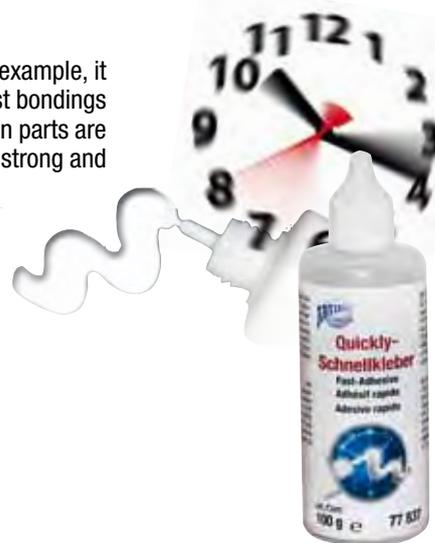
Adhesive Substance:

Based on a fast-acting alcohol-based resin dispersion (propylene carbonate).

Curing:

Occurs within a few minutes. The adhesive is set-up in way that the bond is cured after 3 - 4 hours.

- pH-Value: 5,0
- No marking required
- Consumption: 80–90 g/m²



77 836	Quickly-Fast Adhesive	30 g	Pen bottle with painting nozzle closure	PE 6
77 837	Quickly-Fast Adhesive	100 g	Plastic bottle with painting nozzle closure	PE 6

Transparent paper glue

When gluing transparent paper, the gluing points remain visible after drying. This impairs the appearance of the finished parts. As a result of being manufactured based on a thermoplastic acrylic polymer, however, this adhesive fortunately does not have this characteristic. It provides a perfect bonding of the thin, translucent, transparent paper (42 g) for lanterns, transparencies and dragons, without disturbing the glue lines. In addition, it is particularly well-suited for gluing crepe paper, rubber and plastic-coated paper and cartons.

Product Features:

Special glue for bonding complicated paper products.

Colouring:

Milky adhesive, after curing becomes colourless (invisible).

Application:

Bonding of thin transparent paper. It is important, that the glue lines are no longer visible after drying.

Adhesive substance:

Water-based dispersion of a self-linking acrylic polymer in connection with ethyl acrylate and methacrylate.

Curing:

The adhesive has a very fast initial adhesion that leads to an immediate gluing and already after 30 minutes the curing is completed.

- pH-Value: 3,6
- No marking required
- Consumption: 45–55 g/m²



77 711	Transparent paper glue	50 g	Plastic bottle with glue-spreader closure	PE 6
77 712	Transparent paper glue	100 g	Plastic bottle with glue-spreader closure	PE 6

Flower ball adhesive

For the production of small, intricately-folded flowers (Flurogami), which are made out of flower segments carefully-glued together previously, this adhesive, with its quick initial adhesive time, is used. After a flower is folded, the ends are thinly spread with glue and weighted with an object so that they stick firmly together. In the meantime, the next petal segments are folded. When finished, the whole flower can be processed with this special glue. The flower part glued beforehand is then firmly glued. Finally, all the flower segments produced are combined into one beautiful-looking flower and completely glued.

Product Features:

Transparent special adhesive with faster initial adhesion. Bonds paper with paper with cardboard within a few seconds. Ideal for making intricately folded paper flowers.

Colouring:

Milky-transparent, discoloured after curing and is crystal clear.

Application:

Particularly suitable for bonding subtle and complicated paper work.

Adhesive Substance:

Slightly viscous dispersion based on acrylic acid esters.

Curing:

Glue bond occurs within 45 seconds. Curing is completed after 15 to 20 minutes.

- pH-Value: 5,1
- No marking required
- Consumption: 90–100 g/m²



77 671 Flower ball adhesive 50 g Plastic bottle with painting nozzle closure PE 6

Photo glue

This medium viscosity adhesive allows the quick attachment and gluing of photos, paper, cardboard, cork, textiles and other adhesive objects that are easily removed again (re-positionable). Any possible adhesive residue can be simply removed by rubbing (rubbing off). The adhesive contains alcohol, so when processing, develops a weak odour, which rapidly evaporates and is harmless. The product may also be used by over 6-year-old children under the supervision of parents or guardians.

Product Features:

Adhesive with faster initial bonding, re-positionable, whereby any adhesive residue can be easily removed again.

Colouring:

Transparent turbid - viscous (thick-flowing).

Scope of Application:

Gluing of photos, pictures, creating collages, designing illustrations, posters - layouts.

Adhesive Substance:

Made on the basis of natural rubber and isopropyl alcohol.

Curing:

The curing takes place within a few seconds by the evaporation of the alcohol contained in the adhesive. Important: do not apply the adhesive to painted or solvent-sensitive substrates, or at least make a test beforehand on an unimportant surface. Adhesive can dissolve painted surfaces.

- pH-Value: 6,8
- Danger: flammable!
- Consumption: 65–75 g/m²



77 641 Photo Glue 50 g Plastic bottle with painting nozzle closure PE 6

Water resistant paper glue

It must be ensured that the jointing parts of objects glued together and made out of water-proof paper do not dissolve and come apart. Such objects designed to come into contact with water as floating objects such as boats, bowls, boxes, bags, or lighting fixtures, etc. must be securely glued with a water-resistant adhesive. The waterproof paper glue hardens within 30-40 minutes and is then no longer soluble in water. So this adhesive is not only suitable for bonding water-resistant paper and cardboard materials, but also materials that are combined with paper and cardboard such as wood, textiles*, polystyrene, cork, etc.

Product Features:

Medium viscosity, good spreadable adhesive, with faster adhesion and secure adhesive strength.

Colouring:

white

Scope of Application:

Not soluble in water. Bonding of water-resistant paper.

Adhesive Substance:

Polyoxy-1, 2-ethanedy. l.

Curing:

Occurs within 30 - 40 minutes, dependent on temperature and material, but must then have 2 - 3 hours reaction period (post-curing).

- pH-Value: 7,3
- Danger: flammable!
- Consumption: 85–95 g/m²



77 986 Water resistant paper glue 100 g Plastic bottle with painting nozzle closure PE 6

* These items can be pre-coated with a water-resistant coating, e.g. with the weather-proofing impregnation (Art. 69 876).

Laser cut adhesive "Universal"

The adhesive has been specially developed for the fast and secure bonding of laser cardboard sections cut out of cardboard pieces, such as houses, fences as well as and other components. It cures within a few minutes, remains elastic and does not change the appearance of the cardboard coated it. This is a condition for bonds appropriate for model making (the cardboard treated does not swells and buckle). Additionally, it is used for coating walls and roofs in order glue on small design elements, such as gravel, sand, etc..

Product Features:

Glue with quick adhesive time for thread-free bonding of laser-cardboard and other hard cardboard. The bonding takes place very quickly and stays elastic.

Colouring:

milky white glue, that becomes colourless after curing.

Scope of Application:

Bonding of thin cardboard pieces cut out of laser-cut cardboard as well as the gluing of materials which are processed in combination with this special cardboard, for example, (metal, stone, wood, decoration material etc.).

Adhesive Substance:

Solvent-free dispersion on the basis of 2 - (2-butoxy ethoxy) - ethyl acetate in combination with butyl-methacrylates.

Curing:

Occurs within 30-50 minutes. During this time, the product can be well-positioned and easily applied because of its rapid initial adhesion.

- pH-Value: 7,6
- No marking required
- Consumption: 75-85 g/m²



77 901	Laser cut adhesive „Universal“	30 g	Plastic bottle with painting nozzle closure	PE 6
77 902	Laser cut adhesive „Universal“	90 g	Plastic bottle with painting nozzle closure	PE 6

Puzzle varnish hardener

The completed puzzle is uniformly coated with this special glue thinly. The thin liquid-type glue penetrates into the fine cracks between the pieces and connects them together so that a solid, continuous picture is created. The same adhesive coating can also be applied to the reverse side that improves the cohesion of the „puzzle picture“ still further. This adhesion technology contains the property that the picture puzzle can be re-transformed back into the small puzzle pieces because of the hardness and brittleness of the glue. The individual puzzle pieces can then be used to put together again to recreate the whole picture.

Product Features:

Watery adhesive that deliberately cures hard and brittle

Colouring:

Milky-white adhesive, cures transparent.

Scope of Application:

Covering pictures puzzles with a hard, brittle adhesive layer, that allows the picture puzzle to be disassembled into individual puzzle pieces.

Adhesive Substance:

Water based dispersion of polyvinyl acetate

Curing:

The adhesive lacquer coating hardens within 10 - 20 minutes and after 30 - 40 minutes is completely cured.

- pH-Value: 8,3
- No marking required
- Consumption: 45-55 g/m²



77 801	Puzzle varnish hardener	50 g	Plastic bottle with painting nozzle closure	PE 6
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Puzzle Glue Varnish

After the laying together all the small puzzle pieces to form the complete picture puzzle, the picture surface is first thinly coated with this sticking lacquer. The glue dries in 15-20 minutes so then the picture reverse side can also be treated in the same way. After the application of the last adhesive layer has dried, the picture puzzle must be left to post-cure for a further 60 minutes. Only then is the work of art, a beautiful picture-puzzle.

Product Features:

Lacquer adhesive that firmly dries within a few minutes.

Colouring:

The transparent-white adhesive becomes crystal clear after curing.

Scope of Application:

Coating of picture-puzzles with a solid cured adhesive lacquer, that sticks together the individual pieces into a stable picture.

Adhesive Substance:

Watery, glossy adhesive-based dispersion of polyvinyl acetate.

Curing:

Occurs within 15-20 minutes per adhesive side.

- pH-Value: 8,8
- No marking required
- Consumption: 50-65 g/m²



77 812	Puzzle Glue Varnish	100 g	Plastic bottle with painting nozzle closure	PE 6
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Universal Spray Glue

Quick-sticking spray adhesive that is sprayed on smooth and uneven base surfaces. Then on top of this, objects made out paper, cardboard, plastic, wood, textiles, polystyrene, cork, etc. can be placed and firmly glued. It is also suited for decorative parts made out of felt, vinyl, rubber, foam rubber and thin veneers. Not suitable for foils, soft PVC, leather and imitation leather.

- Product Features:** Good sticking adhesive for the manufacture of decorative surfaces where the glued surface objects can be taken off again. The advantage is that the adhesive application can also be sprayed easily on to base surfaces that are not so easily accessible and on which your favourite objects can be fixed.
- Colouring:** Transparent adhesive dries colourless.
- Scope of Application:** Bonds onto uneven base surfaces firmly. Also on large surfaces,
- Adhesive Substance:** Contains copolymer, acrylic acid esters and additives, (solvent-free).
- Curing:** The adhesive is applied to the adhesive surface and is immediately reactive. It does not require any airing time. Gluing objects can placed on it immediately and are firmly attached.

- pH-Value: 4,3
- No marking required
- Consumption: 60–70 g/m²



77 875	Universal Spray Glue	200 ml	Spray can	PE 12
77 876	Universal Spray Glue	300 ml	Spray can	PE 12

Dry-bond and assembly glue (Spray)

The spray adhesive is not a permanent adhesive. The adhesive liquid is sprayed on the base surface. Then objects can be attached that can be removed at any time (Pin board). The adhesive is particularly suited for mounting layouts for a text/image montage, for the tacking templates/patterns, sticking of labels/signs (exhibition stand construction), for experimental set-ups in modelling or for demonstration sites (panels), to various moulded parts and picture components made out of wood, cardboard, plastic, glass, metal, textiles etc. , but then can be removed again or changed at any time.

- Product Features:** Sprayable dry-bond adhesive that after airing, allows the tacking of light up to medium-heavy objects made out of various materials.
- Colouring:** Transparent, sprayable adhesive.
- Scope of Application:** One-sided adhesive application: Bonded parts that are placed on it can be removed again. Important: If the application of adhesive is done on both adherends, the adhesive remains permanent.
- Adhesive Substance:** Aliphatic hydrocarbon mixture with components of butane and propane, which creates a permanent adhesive effect.
- Curing:** The adhesive is sprayed on the adhesive substrate/base surface. It does not require any evaporation time, so the desired objects can be placed on it immediately and that are removable at any time.

- pH-Value: 3,8
- No marking required
- Consumption: 40–50 g/m²



ECONOMICAL IN CONSUMPTION

77 835	Dry-bond and assembly glue (Spray)	300 ml	Spray can	PE 12
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Magnetic varnish (contact adhesive)

The object to be glued must dry for about 20 minutes after application of the adhesive. During this time, the moisture contained in it evaporates. A nearly-dry glue remains, however well-sticking. Then the object not coated with the glue is placed on to it. Then, both parts are firmly bonded with each other. The gluing can be removed at any time again because the objects only „come together” Hence term „magnetic adhesive”, as this holding together can be compared magnets. The magnetic lacquer bonds with nearly all materials: paper, cardboard, cork, polystyrene, leather, glass, ceramic, metal, plastic and all smooth surfaces of stone, plaster, concrete, etc..

Application tip: with this adhesive light objects made of wood, plastic, polystyrene on maps, window glass, game boards, pin and wall boards, etc. can be attached. They can be taken down at any time and affixed somewhere else. This can be done about 100 times with this „magnetic coating”.

Product Features: Temporary attachment of objects that can be removed at any time and fixed elsewhere.

Colouring: Milky adhesive that becomes transparent after „evaporation”.

Scope of Application: On pin boards where you can stick any object, including sticky notes, keys, pens, etc. and remove them again.

Adhesive Substance: Water-based dispersion of a self-linking acrylic polymer on the basis of 2-ethylhexyl acrylate.

Curing: The adhesive application must pre-react for around 20 minutes. During this time, the moisture contained in it evaporates. At the same time the adhesive effect begins. The „bonding part” can be taken off at anytime.

- pH-Value: 5,8
- No marking required
- Consumption: 65–75 g/m²



77 831	Magnetic varnish (contact adhesive)	30 g	Pen bottle with painting nozzle closure	PE 6
77 833	Magnetic varnish (contact adhesive)	100 g	Plastic bottle with painting nozzle closure	PE 6

Ideal for stimulating the imagination of children playing with foamed rubber stamped parts. A cupboard door serves as the play surface!



Applying the magnetic lacquer to the foamed rubber parts which must then be left to dry for about 30 minutes (airing).



The moisture evaporates from the adhesive, the stickiness remains. The stamped parts can now be attached to a flat surface, removed at any time and restuck elsewhere.



The game can begin!

Kontato contact adhesive

Permanent adhesive liquid glue which also allows the firm gluing of heavier and more complicated objects because of its extreme adhesion characteristics. The surfaces prepared with this glue must air for about 30 minutes (dry) and then becomes almost transparent. This shows that the glue surface is ready for use. This adhesive is preferably used in schools, for example, to provisionally tack together design models in physics lessons to bring together parts on to a mounting surface that can be removed at any time and re-glued somewhere else. In addition, it is used for bonding different material compositions, e.g. for the solid assembly of plastic with glass or metal, rubber, textiles, wax, rubber, plastic or metal-coated film and other assembly parts. This type of bonding holds the parts firmly together. Nevertheless, they can be separated again to be connected with other objects. The adhesive is also suited for large surfaces of felt, where PVC films, artificial leather, vinyl, leather, insulations, carpet covering foam and sponge rubber, etc. can be stuck to it.

Product Features: Good-flowing medium-viscosity emulsion adhesive.

Colouring: Yellow transparent adhesive.

Scope of Application: When gluing objects with this adhesive, only one side is glued. The other parts are placed and firmly pressed on the aired adhesive layer. After that it is firmly bonded together (stapled). The bond may at any time be dissolved again.

Adhesive Substance: Consists of a mixture of acrylic acid ester copolymer with filler material.

Curing: Kontato contact adhesive does not cure completely. After evaporation/airing the moisture contained in it, it develops a permanent adhesive effect, which nevertheless makes it possible that the stuck assembly parts can be dissolved (separated from each other).

- pH-Value: 6,3
- No marking required
- Consumption: 75–85 g/m²



77 706	Kontato contact adhesive	50 g	Plastic bottle with thin nozzle closure	PE 6
77 707	Kontato contact adhesive	100 g	Plastic bottle with thin nozzle closure	PE 6

Adhesive	wood, leather, textiles																				
	77 606 Rubber items glue	77 617 Univ. leather glue	77 656 Speedy wood glue	77 706 Kontakt contact glue	77 766 Hardwood prec. glue	77 771 Leather effects glue	77 781 Wattelino adhesive	77 795 All-in-one adhesive	77 836 Quickly-fast glue	77 846 Univ. textile adhesive	77 851 Felt adhesive	77 856 Material/textiles glue	77 862 Material impregn.	77 886 applications glue	77 901 Lasercut glue	77 911 Wood gluing paste	77 921 Wood point glue	77 931 Model/landscape glue	77 956 Univ. handicraft glue	77 977 Nativity scene paste	
Attachments	•	•				•				•	•	•		•							
Car Seats	•	•													•						
Balsawood	•		•	•	•			•								•	•		•	•	
Bark	•									•	•										
Tree grates	•		•	•											•	•	•				
Boat hulls	•									•		•	•								
Felt	•	•		•																	
Veneers	•		•							•	•	•					•		•	•	
Curtains	•		•	•	•			•	•						•	•	•	•	•	•	
Rubber products	•		•	•	•	•		•	•	•	•	•			•	•	•	•	•	•	
Hardwood	•		•	•	•			•	•						•	•	•		•	•	
Wood with felt	•		•		•			•	•							•	•		•	•	
Wood with plastics	•	•		•																	
Wood with cardboard	•	•		•																	
Wood with textiles	•	•		•																	
Wood patterns	•	•		•																	
Wooden lanterns	•	•				•	•			•	•	•	•	•			•				•
Wood strips	•	•								•											
Wooden frame			•		•			•	•								•				
Wooden Toys			•		•			•	•							•					
Cheese boxes			•		•												•				
candle coat	•			•																	
Cork coatings	•			•				•		•						•			•	•	•
Hayracks kit			•	•	•	•		•	•						•	•	•				
Synthetic material flat				•																	
Lantern kits				•											•						
Lasercutmodels			•		•			•	•						•	•	•		•	•	
Latex products			•		•			•	•						•	•	•		•	•	
Leather products			•	•	•			•	•						•	•	•		•	•	
Leather bags			•	•	•			•	•						•	•	•		•	•	
Leather belts			•	•	•			•	•						•	•	•		•	•	
Model components (wood)															•	•	•		•	•	
Möbelteile			•	•	•			•	•						•	•	•		•	•	
Boxes (wooden boxes)			•		•										•	•	•		•	•	
Cut wood pieces			•	•	•				•						•	•	•		•	•	
Wooden boxes			•	•				•							•	•	•		•	•	
Plywood models			•	•											•	•	•		•	•	
Shoes			•	•		•		•	•						•	•	•		•	•	
Material			•	•		•		•	•						•	•	•		•	•	
Matchstick models		•		•			•	•	•	•	•	•	•	•					•	•	
Carpet coatings	•			•																	
Textile wallpaper	•			•						•		•						•			•
Textiles			•	•		•		•	•						•	•	•		•	•	
Decorating wax				•																	
Bird houses			•	•				•								•	•				
Wax shares				•																	



Wood, cork and other natural materials

Speedy-wood glue

Speedy-wood adhesive is used for the rapid gluing together of pieces of wood. The adhesive is modified so that it has a rapid initial adhesive (minutes) and glues together the assembly parts in 8-12 minutes so that they can no longer be changed. It is important that the adhesive parts are firmly pressed together because of the effect the pressure has on the bond strength. The adhesive is particularly suitable for gluing wooden structures in the assembly of small pieces of furniture, toys, handicrafts, model making, etc., and is therefore happily used in schools model workshops.

Product Features:

The gel-like adhesive can be directly applied to the gluing object through the extra-long application nozzle attached to the bottle opening, or alternatively, with a brush.

Colouring:

Application:

Due to its solid consistency it is ideally suited for vertical adhesive surfaces. The white adhesive changes its colour and is transparent after curing. Fast bonding of wood parts to wood, textiles, polystyrene, leather, etc. It is also used for bonding absorptive materials, e.g. objects made out of gypsum, raw ceramic (bisque ware), and is suitable for cast ceramic etc., whereby after assembly, a fixing of the adhesive part is only possible from 10-60 seconds.

Adhesive Substance:

The adhesive built on the basis of a solvent-free dispersion of polyvinyl acetate can be diluted with water, which is advantageous when used with textile e-like materials.

Curing:

While the initial adhesion leads to solid bonding after only 8-10 minutes, the end gluing is reached after 50 - 80 minutes, which is also dependent on the adhesive surfaces and the ambient temperature.

- pH-Value: 6,0
- No marking required
- Consumption: 100-120 g/m²



77 656	Speedy-wood glue	100 g	Plastic bottle with thin nozzle closure	PE 6
77 657	Speedy-wood glue	250 g	Plastic bottle with thin nozzle closure	

Wood point-glue

For fine and precise gluing work, as for example in model and construction. In order to form the perfect adhesive joints without the irritating thread formation, this high quality synthetic resin adhesive is used. This is why the glue bottle is supplied with an extra-long and fine outflow-slice, with which these jobs can be done precisely.

Product Features:

The reactive adhesive emulsion allows quick adhesion of the assembled wood or adhesive parts.

Colouring:

The liquid glue is milky-white and after curing is transparent.

Application Scope:

The adhesive substance is ideal for tight and secure bonding of objects with fine point adhesion, which is especially advantageous for modelling and structure construction. The thread-free bonds are also suitable for other work, such as design development, precision modelling and in general product development.

Adhesive Substance:

High viscosity, solvent and filler-free special paste, made made out of water-based dispersion in conjunction with acrylic acid esters. Thus, a rapid adhesion is achieved which causes a firm and secure adhesive bond within a few minutes.

Curing:

The solid and secure adhesive result, which should occur quickly in construction modelling, is achieved with this adhesive within a few minutes. The glue cures solidly within 40-60 minutes.

- pH-Value: 6,4
- No marking required
- Consumption: 90-120 g/m²



77 921	Wood point-gluing	90 g	Plastic bottle with thin nozzle closure	PE 6
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Wood glue

Solvent-free, weather-proof, fast adhesive paste (open time 5 - 10 minutes). With its excellent flow characteristics it has proved itself best in the handicraft and art areas for flat adhesive coatings (veneers). In addition, the paste ensures a uniform and secure cohesion of the connected wood parts. It therefore also ideal for use in pasting and connecting furniture parts, laminate sheets, wooden plugs and assembly bonding. It can also be easily used for a thread-free bonding of model-like wooden structures in woodwork lessons in schools, for the construction of nativity scenes, model ships, airplanes etc.

Product Features:

Colouring:

Scope of Application:

Adhesive Substance:

Curing:

Very well-flowing wood glue, waterproof curing. Milky-white, after curing, becomes crystal clear. bonding of furniture, veneers, bonding of edge bands, bonds in modelling. It also bonds waterproof paper with wood, textiles and natural materials. Medium viscosity, solvent-free resin glue. Made on the basis of polyvinyl acetate. The adhesive has a fast initial adhesion, solvent and formaldehyde-free - no extenders and filler material. The bonding of wood parts dependent on the wood thickness and the environmental ambient temperature and requires for 45 minutes to 150 minutes.



- pH-Value: 6,4
- No marking required
- Consumption: 120–100 g/m²

77 911	Wood glue	50 g	Plastic bottle with thin nozzle closure	PE 6
77 913	Wood glue	250 g	Plastic bottle with thin nozzle closure	PE 6

Hardwood precision glue

This unusual synthetic resin paste is used industrially for the bonding of quality components, such as the gluing of plywood and hardwood panels. From these objects, models, propellers for model airplanes, wheels, rollers, design models, etc. can be sawn out and milled. It has also proved to be extremely fast-acting and reliable in restoring and repairing furniture. Therefore, it is also used for all high-quality adhesive jobs that require a waterproof, secure bonding, also on the outside. For example, in the construction of model aircraft and ships, gluing of benches, stools and other furniture parts. It can also be used in the usual craft materials made of paper, cardboard, textiles and leather are firmly connected.

Product Features:

Colouring:

Scope of Application:

Adhesive Substance:

Curing:

When brushing on, the paste creates a good, uniform layer. The white adhesive substance changes its appearance during the curing, and then becomes almost transparent so that it is barely visible on the gluing parts. Bonds and connects up or down together pieces of wood or other Materials. Particularly suitable for sticking together Aircraft and ship models and other wooden structures. Pure resin paste without bulking agent, formaldehyde and solvent addition. Produced on the basis of an acrylic polymer (polyvinyl acetate). It can therefore also be used by children easily as a versatile wood adhesive. The bonding takes place at normal room temperature within 8-10 minutes, and after 30 - 120 minutes completed.



- pH-Value: 6,2
- No marking required
- Consumption: 100–120 g/m²

77 766	Hardwood precision glue	100 g	Plastic bottle with thin nozzle closure	PE 6
77 767	Hardwood precision glue	250 g	Plastic bottle with thin nozzle closure	PE 6

Textile bonds

Felt glue

This thick special adhesive is particularly suitable for the bonding of felt with felt or other materials, preferably textile. The textiles are wetted by the liquid adhesive, but not soaked. This causes a fast, secure stitching, resulting in a solid, non-releasable bond within 60-90 minutes. For the gluing together, and partly gluing onto each other, this adhesive is suitable for almost all textiles made out of natural and synthetic yarns, for example, felt applications, knee pads, pocket flaps etc.

Product Features:

Viscous, thick liquid paste, that binds together well with the thread-like textile structures, will not yield or wet through materials, but adheres surfaces well.

Colouring:

Milky-transparent, dries crystal clear.

Application:

Bonding of felt and other knitted, crocheted or woven textiles, and synthetic fabrics made out of nylon, Polyacryl, Trevira, Orlon etc..

Adhesive Substance:

Water-based acrylic dispersion.

Curing:

After a short bond, within 1-2 minutes. Both ends of the adhesive spread with this glue completes its curing within 60-90 minutes. The data are dependent on the fabric thickness and the ambient temperature.

- pH-Value: 6,0
- No marking required
- Consumption: 80-90 g/m²



77 851 Felt glue

50 g

Plastic bottle with painting nozzle closure

PE 6



Cloth and textile Glue

Bonds textile with textile and all other synthetic fabrics such as polyacryl, Orlon, Trevira etc. The adhesive surface is partially soaked by the adhesive. After drying the adhesive is no longer visible. This material/textile adhesive is therefore also suitable for special handicraft technical bonds, whereby textiles are firmly glued to wood, leather, polystyrene, felt, cork, etc..

Product Features:

Low-viscosity, while appearing somewhat viscous, easily spreadable adhesive substance which can be evenly distributed on textile surfaces. Depending on the nature of the fabric and the fabric strength the adhesive ensures that after drying, a secure, stable cohesive gluing bond is formed. It is no longer visible on most textiles.

Colouring:

transparent-opaque, dries almost invisible.

Application:

bonding of fabrics, hemlines of dresses, curtains, sticking of bags, applications etc..

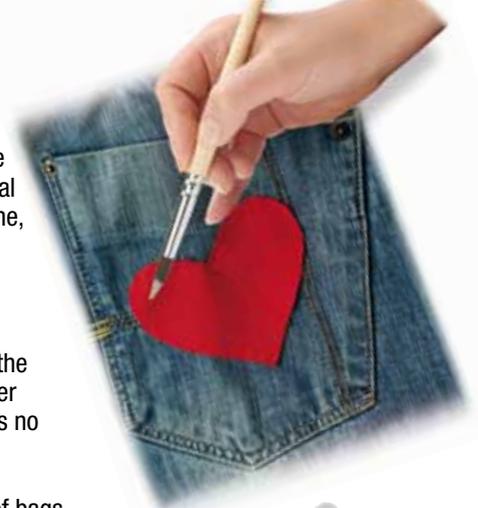
Adhesive Substance:

High-quality adhesive substance on the basis of polyglycol ethers.

Curing:

The curing of the adhesive is dependent upon the absorbency of the adhesive parts, also on the ambient temperature. For this reason, it is enough for a one-sided application of small glue dots or a glue line. Both adhesive parts are firmly pressed together after a short drying phase of 2-3 minutes and show a solid, secure bond after 60-150 minutes (depending on the material).

- pH-Value: 8,5
- No marking required
- Consumption: 100-110 g/m²



77 856 Cloth and textile glue

50 g

Plastic bottle with painting nozzle closure

PE 6

77 857 Cloth and textile glue

100 g

Plastic bottle with painting nozzle closure

PE 6

Universal textile glue

The special design of this adhesive substance offers a great versatility when joining tissue and textiles. The adhesive substance is thin, and does not imbue the tissue of the fabric. It connects with the fine threads of the fabric and thus provides a solid attachment which can be compared with an adhesive seam. When ironed with an iron (cotton setting) the bond is additionally strengthened. After that, the glue carries on reacting so that the bonding process is insoluble solid and complete after 40-60 minutes.

Product Features:

This low-viscosity adhesive causes an immediate adhesion, which in addition can be further activated and accelerated by the influence of heat. It is elastic as it dries and almost invisible.

Colouring:

Milky adhesive emulsion which is transparent after drying.

Scope of Application:

The adhesive is suitable for bonding natural, partly synthetic tissue, whereby the adhesive effect can be accelerated by supplying heat to a temperature of 65°C (temperature of ironing cotton). The adhesive is applied to one side for the bonding of attachments, bags, patches, hemming curtains, clothing materials, etc., and must then be left to dry for about 4 minutes. Only then can the pieces of fabric be firmly compressed. The glue takes on the function of a hot needle.

Adhesive Substance:

On the basis of an aqueous emulsion of vinyl in combination with fast-acting adhesive accelerators, modified, natural adhesive, completely non-polluting and filler-free. A masterly synthesis of a vinyl acetate combined with a polyurethane dissolved in white spirit.

Curing:

The thin adhesive application requires only a 4-minute pre-reaction time, after which the adhesive parts are firmly compressed. The bonding takes place depending on the effect of temperature (Iron) within 40-60 minutes.



- pH-Value: 7,6
- No marking required
- Consumption: 70–80 g/m²

77 846	Universal textile glue	30 g	Pen bottle with painting nozzle closure	PE 6
77 847	Universal textile glue	90 g	Pen bottle with thin nozzle closure	PE 6

Rubber-like textile/leather glue (rubber milk)

This adhesive is created on the basis of a high-percentage of latex dispersion and achieves a solid, safe and shock-free adhesive characteristics on textiles, soft and hard fibres, felt, jute and coconut. Furthermore, the surface-gluing of veneers, leather with leather, bonding carpet, felt and cork flooring is possible. In order to achieve a permanent adhesive contact, both sides are thinly and evenly covered with adhesive and must then dry for about 20 minutes (Dry). Afterwards, the parts are pressed together so that they stick firmly together.

Product Features:

Medium-viscosity adhesive which is applied to textiles, wood, leather, rubber, cork etc. with a spatula on which it spreads easily.

Colouring:

Milky-white emulsion adhesive, which is almost transparent after drying.

Application:

Due to the medium-consistency of the adhesive, it penetrates only slightly into the textile surface, thereby developing a coherent elastic adhesive film which bonds with the second adhesive layer after airing. With this, natural textiles, leather with leather, felt, cork, flooring can be glued. In addition, the bonding of rubber soles, wood veneers etc., is possible.

Adhesive Substance:

This natural adhesive, based on an aqueous emulsion latex in combination with fast-acting adhesive accelerators, is completely non-polluting and filler-free.

Curing:

The pre-reaction time of the adhesive is approximately 20 minutes. After this, the adhesive parts are placed together and squeezed tightly together. The gluing is perfect, but should be left to complete further reaction (cure) for about 30 to 100 minutes before placing under pressure.



- pH-Value: 9–10
- No marking required
- Consumption: 120–130 g/m²

77 606	Rubber-like textile/leather glue (rubber milk)	100 ml	Plastic bottle with thin nozzle closure	PE 6
77 607	Rubber-like textile/leather glue (rubber milk)	250 ml	Plastic tin	PE 6

Fabric impregnating hardener

Through the intensive soaking of fabrics in the fabric impregnation hardener, the subsequent wringing out and soaking, the fibres of this tissue fully suck up this adhesive, stick together and solidify during drying. Thereby, it is possible to form and drape these prepared textiles as desired after a pre-reaction time of 1-2 hours. The tissue then has the required rigidity which is comparable to a thin metal sheet. It remains dimensionally stable and true to form, then hardens within a further 7-8 hours, whereby it fixed and is very hard.

In addition, it is possible to previously colour the material impregnation hardener to be used for this purpose with colouring water-soluble pigment, so that coloured or multi-coloured decorative parts can be produced. The finished sculptures or drapes can be used indoors as well used outdoors in a dried state, as they are water, weather-resistant and weatherproof. They can also be decoratively repainted with additional effects.



Product Features:

Medium-viscosity emulsion adhesive with excellent flowability, which is ideal for impregnating absorbent fabrics of wool, linen and jute.

Colouring:

Milky-white, but hardens a neutral colour. The fabric-impregnation hardener can be additionally coloured with pigment powder (71 511) in any shade.

Scope of Application:

impregnating absorbent textile that can be shaped and draped as desired after a short curing time of the sealer. Also used for forming loop bands or the making of flower vases, for which old jeans, bags etc. are particularly well-suited.

Adhesive Substance:

Special textile hardener mixture on the basis of a pollution-free polyglycolic ethers.

Curing:

The ready-shaped pieces of fabric can be further formed (more detail) in a state in which they have become somewhat solidified, after a pre-reaction time of 2 hours. The final curing, which then becomes as hard as wood takes place within a further 6-8 hours. All objects produced in this way are usable outdoors.



- pH-Value: 8,5
- No marking required
- Consumption: 1400–3000 g/m²

* Depending on the absorbency and textile thickness



77 862	Fabric impregnating hardener	250 ml	Plastic tin	PE 6
77 863	Fabric impregnating hardener	500 ml	Plastic tin	PE 3
77 864	Fabric impregnating hardener	1000 ml	Plastic tin	PE 1

Application adhesive

For sticking partially detached or new attachments, cut textile parts for bags or seams of clothes and curtain fabrics etc., a secure „Super Glue“ is needed with which such work can be done immediately. Therefore, this application adhesive is suitable. It only needs to be applied to the selected textile surface and then with a flat iron (Setting „cotton temperature“) it is ironed out. The adhesive emulsion is heated, liquefied and is with this activated, so that it immediately bonds both pieces of fabric securely together. The bond is completed after lifting the iron!

Product Features:

Low-viscosity adhesive liquid, adhesive effect in an instant when subjected to a temperature of about 63–65°C is activated. When this heat treatment is taken off, it is fully effective.

Colouring:

Transparent turbid liquid which is completely transparent after application.

Scope of Application:

non-visible, non-disruptive adhesions when bonding two fabric objects to each other, such as bags, cut textile parts such as flowers or borders, applications, also for fixing the hems sewn on curtains, dresses, etc..

Adhesive Substance:

Polyurethane adhesive dissolved in organic solvents, which is activated by heat and immediately creates a strong, secure, yet elastic permanent adhesion after cooling. Shake the bottle well before using the material substance.

Curing:

The bonding takes place immediately after the processing temperature goes below 50°C. It remains constant, but may be regenerated at any time by heat-action, which can be advantageous if, for example, worn or damaged applications or pocket attachments should be removed and replaced with new ones.

Special note:

For sticking on attachments, or the use of this adhesive is suitable on temperature-resistant textiles because the bonding takes place at a temperature of 65°C (cotton ironing temperature). The pasted textile are washable up to 40 °C

- pH-Value: 7,4
- No marking required
- Consumption: 70–80 g/m²



77 886	Application adhesive	50 g	Plastic bottle with thin nozzle	PE 6
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Wattelino - Glue for cotton balls

This high-quality cotton wool adhesive, Wattelino's® adhesive, is particularly well suited for gluing the various forms shaped and hardened by impregnation. So that the combined Wattelino parts are firmly joined in a grid board to make a relief-like wall décor or picture.

With the Wattelino adhesive, not only can plastic be designed and formed, glued solidly together and then painted effectively, but also three-dimensional decorative objects parts.

Product Features:

Low viscosity adhesive with which the glued cotton wool and parts of pulp can be bonded within a few seconds.

Colouring:

White adhesive liquid that hardens milky-white and can be easily painted over with any colour (even with water colours).

Scope of Application:

bonding of impregnated, dimensionally stable cotton wool parts on to 2 and 3-dimensional figures, relief-like images and decorative objects.

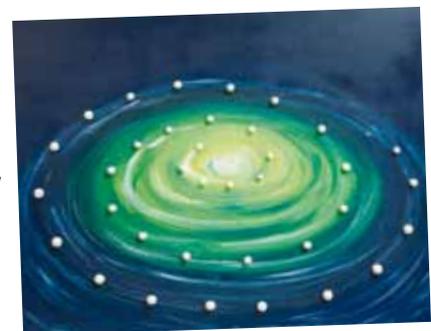
Adhesive Substance:

An aqueous dispersion, produced on the basis of acrylic acid esters

Curing:

The adhesive bonding occurs within 20 to 30 seconds, while the adhesive curing is terminated after 30 to 50 minutes.

- pH-Value: 8,5
- No marking required
- Consumption: 80 g/m²



77 781	Wattelino - Glue for cotton balls	50 g	Plastic bottle with painting nozzle closure	PE 6
77 782	Wattelino - Glue for cotton balls	100 g	Plastic bottle with painting nozzle closure	PE 6

Bonding rubber and leather

Leather "effect" adhesive

This adhesive, produced on the basis of a 1-component polyurethane system is used for coating leather surfaces. Then it is applied with a brush or sponge, where it forms a thin adhesive surface, which then can be covered with tinsel, small decorative trims, beads and other "effect" materials. In addition, it is also suitable for the planar bonding of leather with leather, wood, textiles, etc.

Product Features:

Medium viscosity, a well spreadable emulsion adhesive which is evenly thin applied with a soft glue brush on the leather item.

Colouring:

White, dries to transparent.

Scope of Application:

Bonding of different materials with leather. Adhesive coating for leather items, such as bags, belts, bracelets, key cases, luggage tags, boots, etc., which can be decorated with tinsel, small glass beads, impact and sheet metal other effect materials.

Adhesive Substance:

Aqueous dispersion of a self-crosslinking acrylic polymer on the basis of 2-ethylhexyl acrylate.

Curing:

The surface coated with this adhesive must air for at least 30 minutes, then a sticky surface remains is left, which can then be decorated with "effect" materials so that they stick firmly.

- pH-Value: 6,6
- No marking required
- Consumption: 65–75 g/m²



77 771

Leather „effect“ adhesive

30 g

Pen bottle with painting nozzle closure

PE 6

Universal Leather Glue

This universal multi-purpose adhesive is used for the repair of the objects manufactured out of rubber, leather and synthetic textiles that can also be bonded with metal and plastic parts. So it is essential, for such bonding work, to have this adhesive always readily available in the house, office, workshop or car.

Product Features:

Medium-viscosity, solvent-based adhesive for gluing together a variety of products, such as leather with leather, rubber with rubber or leather with rubber, metal, sheet metal, aluminium and brass foils, glass and plastic sheets.

Colouring:

Light-coloured, slightly yellowish liquid adhesive.

Scope of Application:

Gluing jobs in the home, at school, at work or in and on the car, whereby parts made of leather, rubber, cork, glass, metal, plastics materials, textiles and synthetic textiles, etc. are glued together.

Adhesive Substance:

adhesive liquid consists of a mixture of polyurethane, prepolymer, stabilizers, mixed with various solvents.

Curing:

The bonding parts thinly painted with this adhesive have to pre-dry for approximately 10 minutes and are then pressed together firmly. The adhesion takes place immediately, but it necessary that the parts be joined for about for 30 minutes to react until a firm, elastic-secure bond is achieved.

- Marking:
Xi (Irritant)
F (Highly flammable)
- Consumption: 40–50 g/m²

The biological brush cleaner (art. 75 686) is particularly well suited for cleaning hands or work tools covered with this adhesive.



77 617

Universal Leather Glue

20 g

SB-Set with Aluminium Tube

PE 6

Adhesive	Adhesive																				
	56 822 stone adhesive powder	56 827 Mosaic stone cement	56 846 Mosaic stone paste	56 852 White mosaic stone paste	56 857 Glass mosaic adhesive	56 876 Plastic mosaic adhesive	56 881 Transp. mosaic adhesive	56 896 Mineral adhesive powder	77 601 Glass UV adhesive	77 621 Liquicoll	77 627 2-Cp. Epoxy adhesive	77 662 Porcelain/ ceramic adhesive	77 686 Foam rubber adhesive	77 716 Natural stone adhesive	77 732 Polystyr./Colourapl. glue	77 806 3-D-Silicon adhesive	77 822 Gliding size	77 841 Styropor adhesive	77 931 Modelling/ landscape glue	77 961 Jewellery adhesive	
Flowerpots	•	•	•	•				•				•		•							
Floor panels								•													
Dioramas								•		•										•	
EPS hard foam								•		•								•			
Tiling				•						•				•							
River pebbles (Fluorite)			•									•						•			
Formestone - cast parts				•				•		•								•			
Moldings made of plaster	•	•	•	•				•		•				•						•	
Cast-resin									•	•	•										•
Cast parts made of cement	•	•	•	•				•		•											
Plaster bandages		•		•				•		•				•							•
Plaster figures	•	•	•	•				•		•			•								•
Glass w. glass, metal, wood										•											
Glazed mosaic tiles		•		•	•			•		•	•										
Glass mosaic					•			•		•	•										
Tiling				•				•		•				•							
Ceramic parts										•											
Shingle	•	•		•				•		•				•							
Pebble stone figures	•	•		•				•		•			•								
Plastics																					
Plastic mosaic stones						•		•		•				•							
Landscape modelling			•					•		•	•										•
Bricks	•	•	•	•				•		•				•							•
Metal foils (thrash metal)																		•			
Metal with metal, stone										•	•	•									
Miniature stone houses	•	•		•				•		•			•								•
Model	•	•	•	•				•		•	•										•
Foam rubber										•											
Mosaic on gypsum surfaces	•	•		•				•		•			•								
Mosaic on glass								•		•											
Mosaic on wood	•	•	•	•				•		•				•							•
Mosaic on cardboard	•	•	•	•				•		•				•							•
Mosaic on plastic								•		•											
Mosaic on wall surfaces		•	•	•				•		•				•							
Mosaic on styrofoam								•		•											
Mosaic panels		•		•				•		•				•							
Mosaic stones	•	•	•	•	•			•		•	•			•							
Natural stones	•	•	•	•	•			•		•	•			•							
Polyester resin parts										•											
Polystyrene															•						
Porcelain	•	•		•				•		•				•							
Reliefs	•	•	•	•				•		•				•							•
Green ceramic	•	•	•	•				•		•				•							•
Gemstones and parts										•											•
Cairns		•						•		•				•							
Styrofoam								•		•				•					•		
Terracotta glue	•	•		•				•		•				•							
Cachepot	•	•	•	•				•		•				•							
Wall tiles	•	•						•		•				•							
Wall rosettes	•	•						•		•				•							
Water basins								•		•				•							
Ornamental pond								•		•				•							



Natural and artificial stones

Natural stone adhesive

High-quality adhesive mixture that is excellent for the safe and solid sticking together of natural pebbles, river rock and stones. In doing so, the bonding of flat pebbles for making cute stone figures (pebble stones) has emerged as a coveted adhesion technology. The gluing together of these figures takes into account animals and fantasy figures which is a popular design theme for children in kindergartens and schools. The adhesive is also suitable for the gluing of small bricks (stones), that are available in various formats for miniature house construction. As a result, beautiful house models can be produced. For the bonding of these stones, this special adhesive is particularly well suited. However, it has a disadvantage over other commonly used mortars, that in its cured state and when inserted into a water-filled container, it can not be dissolved again, thus providing a solid, secure bond.


Product Features:

Low viscosity, good spreadable dispersion adhesive with fast adhesive bonding

Colouring:

White, ivory after bonding.

Scope of Application:

This medium-viscosity adhesive is particularly suitable for the rapid bonding of stone-like materials, preferably natural stones, which can be used for washbasins, animals and decorative figures (rock cairns). It secures immediate adhesion of the adhesive parts. For gluing, the stones are made wet and both bonding surfaces coated with the adhesive and then immediately pressed firmly together for a few seconds.

Adhesive Substance:

High-quality dispersion adhesive based on polyvinyl acetate and pollution-free fillers.

Curing:

The adhesive bonding occurs within a few seconds and keeps the parts to be joined firmly together. The firm adhesion occurs within 3-6 hours.

- pH-Value: 4,6
- No marking required
- Consumption: 180–190 g/m²



77 716

Natural stone adhesive

50 g

Plastic bottle with thin nozzle closure

PE 6

White stone glue

In order to use a low-cost bonding material, the adhesive powder is mixed with water. The result is a pasty adhesive mortar, with which ceramic, plaster and stone-like objects can be quickly and securely bonded. For this, the gluing point are wetted with water, the watery adhesive pulp is applied and the adhesive parts are tightly compressed for 10 sec. The adhesive material is preferred in kindergartens and schools and used for sticking together pebbles for producing so-called „cairns“, i.e. small animals and figures. The natural-based adhesive powder mixed together can be used by children over 4 years with guidance and supervision of a parents and/or adult. The pack comes with a detailed processing and instruction manual and also a small removal trowel.

Mixing ratio:

2 parts by weight of powder and 1 part water and ensures a solid and secure adhesion.

Product Features:

Powdered, natural adhesive powder mixture.

Colouring:

White ivory colour - is ivory-like after mixing with water.

Application:

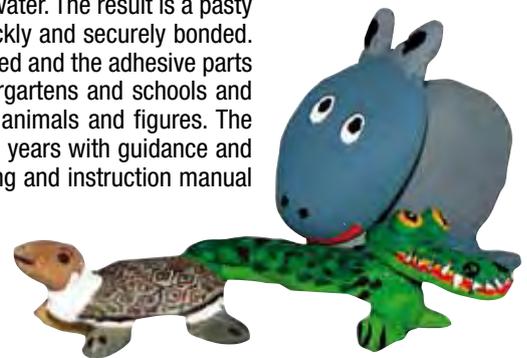
bonding natural stones (stone statues), use as a stone mortar for gluing raw ceramic parts, plaster figures, miniature constructions etc.. Important: adhesive parts are previously moistened with water, then the mixed adhesive pulp is applied to both sides and both are pressed together immediately.

Adhesive Substance:

High-quality, calcium sulfate-based in combination with cellulose, natural adhesive agent (starch) and reagents, modified adhesive mortar, which causes a fast, safe and secure bond. The resulting bonded stones are not suitable for use in aquariums since the cohesion is not guaranteed due to the constant contact with water. The initial adhesion starts after 2-3 minutes and is completely cured already after 2-3 hours.

Curing:

- pH-Value: 8,4
- No marking required
- Consumption: 540 g/m²
- **CE** Meets the requirements of EN 71-1



56 822

White stone glue (powder)

120 g

plastic bucket

PE 6

56 823

White stone glue (powder)

250 g

plastic bucket

PE 6

Mosaic Cement

Powdery, white adhesive mortar with rapid attachment and effective adhesive function, that creates a cement-like appearance. The inexpensive adhesive is manufactured without cement, thus, completely free of harmful substances. It is particularly well suited as an adhesive mortar (adhesive bed) in order to lay in thin mosaic stones (1-4 mm) out of glass, ceramic or natural stone, so that wonderful mosaics can be created. Mosaic cement is also used to glue on plaster wall surfaces, green tiles and wood-like substrates, which were previously moistened with water. In addition, this adhesive mortar, which is mixed with water, is ideally suited for bonding stones for making small stone figures, adhesions (repairs) of objects out of green ceramic, terracotta and bisque ware (flower pots, vases etc.). After mixing with water, it has an open working time of 8-10 minutes, which is sufficient to lay in a selected mosaic surface evenly with mosaic stones within this time. This great mosaic mortar is free from harmful substances so is not classified as a hazardous substance. So children from 3 years even can create their first mosaics under adult supervision.



Mixing ratio:

2 parts by weight mosaic-cement and one part water.

Product Features:

Extra-fine adhesive powder that is mixed with water into a creamy adhesive mortar.

Colouring:

Ivory.

Application:

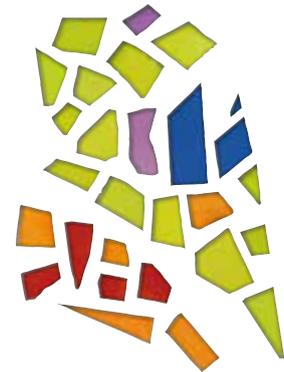
After mixing with water a pulpy mortar substance is created that is well suited for the coating of mosaic surfaces on cardboard, wood or stone. The mosaic tiles are laid down on it and pressed firmly in it. Important: The adhesive mortar should be made liquid-thin as possible (mixed) because of a correspondingly long open processing time exists.

Adhesive Substance:

Mosaic Cement consists of calcium carbonate, that with the addition of a curing retarder and a plastic bonded adhesive, leads to a solid and secure curing.

Curing:

Open processing time for normal, absorbent substrates for 8-10 minutes. The mosaic surface is cured after 6-8 hours.



- pH-Value: 9,6
- No marking required

Material consumption:

Powder g	Water g	Total mortar	Layer thickness	Layer area
100 g	50 g	150 g	1-2 mm	0,08 m ²
100 g	50 g	150 g	2-3 mm	0,06 m ²

56 827	Mosaic Cement	500 g	plastic bucket	PE 6
56 828	Mosaic Cement	1000 g	plastic bucket	PE 6

Mosaic glue

This extra thin-set mosaic glue is particularly suitable for the processing of larger mosaic surfaces, but especially for those with highly absorbent substrates, such as wood, cardboard, mortar, plaster. It is also important that these larger mosaic surfaces can be prepared and covered with mosaic within a period of about 15-30 minutes. And because the mosaic paste is completely free of harmful substances, So children from 4 years can create their first mosaics.

Product Features:

Water-based, medium viscosity adhesive liquid, which has a long processing time and allows good adhesion, so that the embedded mosaic tiles are firmly and securely glued on. White.

Colouring:

Scope of Application:

Production of large, flat-lying bonding surfaces for the laying of mosaic stone, ceramics, plaster and clay. Due to the fluidity of this adhesive substance, it is especially good for open-porous mosaic.

Adhesive Substance:

The mosaic paste is created based on a fast-acting acrylic dispersion, filler-free.

Curing:

It has an open working time of 15 to 30 minutes. Depending on the adhesive base, the curing takes place within 5-6 hours.



- pH-Value: 7,6
- No marking required
- Consumption: 125 g/m²

56 846	Mosaic glue	125 g	Plastic bottle with painting nozzle closure	PE 6
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Mineral adhesive powder

Mineral powder adhesive for the professional gluing of mosaic tiles (glass, ceramic, natural stone). It is mixed with water only. The result is a versatile adhesive mortar with which mosaic tiles, with a thickness of 2-10 mm, can be glued solidly and professionally onto any subsoil, for example, old ceramic tiles, concrete formwork, plastering and plates, plywood and particle boards, plaster, floors made of cement, screed, concrete, floor tiles, window sills, table tops, terracotta and foam components etc..

Mixing ratio:

3 parts by weight of adhesive powder and 1 part water.

Product Features:

High-quality, adhesive mortar for professional application with a rapid initial adhesion. It is easily adjustable and guarantees a perfect, firm adhesion.

Colouring:

White.

Scope of Application:

Bonding of small, for example, 5 x 5, 10 x 10, 20 x 20 mm or even larger mosaic or natural stone on all stone or wood-like surfaces. After mixing, the mortar requires a 3-minute pre-reaction time and then can be immediately applied with a spatula or trowel to make a thin-bed bonding area with a thickness of 1 to 4 mm. The adhesive liquid can, as required, be adjusted to slightly thinner. It is made a little thinner by the addition of water. This is advantageous when laying mosaic stones on highly absorbent substrates, as this gives an even better adhesion, in combination with a slightly longer processing time. In addition, alongside the already mentioned mosaic also tiles, wooden items, polystyrene, metal (wire cloth), etc. can be inserted and glued firmly in this prepared mortar composition.

Adhesive Substance:

Powdered adhesive mortar substance consisting of a plastic-hardened special cement, free of silica dust, mineral and asbestos fibres, hazardous substances and fillers and additives.

Curing:

The laying on and pressing in of mosaic stones in the adhesive should take place within 15-20 minutes because the desired bonding and curing occurs after that. It is completed after 6-8 hours. The prepared mosaic should be grouted within 10-20 hours, since the filler-mortar then connects well with the adhesive mortar. The end-curing reached after 24-28 hours. The finished mosaic or even self-produced floor area can be walked and take loads after a further 8-10 hours:

- Marking: Xi (Irritant)
- Consumption: 120-150 g/m²

Material consumption:

Powder g	Water g	Total mortar	Layer thickness
600 g	400 g	1000 g	1-2 mm
840 g	560 g	1500 g	3-4 mm
1200 g	800 g	2000 g	5-6 mm
1500 g	1000 g	2500 g	7-8 mm



56 896

Mineral adhesive powder

450 g

plastic bucket

PE 6

White mosaic glue

Medium-viscosity adhesive paste which is especially good for gluing mosaic tiles on absorbent surfaces of plaster, green ceramics, ceramic casting materials, plaster, clay, gesso impregnated textile surfaces, wood and cardboard. The adhesive is set to quickly react, which is why always a small adhesive surface should be prepared which should be covered with mosaic within 5-8 minutes. After that, the bonding phase begins where the adhesive parts can be still adjusted but after that stick solidly to the adhesive surface.

Product Features:

Thick-flowing, emulsion adhesive mixed with fillers with a fast initial adhesion.

Colouring:

White.

Application:

Bonding of all stone-like materials, such as ceramic mosaic and natural stones (pebbles) green ceramic. Furthermore, it is also suitable for sticking together of broken pottery and porcelain shards, Poroton, concrete, clay, etc..

Adhesive Substance:

High-quality dispersion prepared from acrylic acid esters, mixed with cellulose, calcium carbonate and casein.

Curing:

The adhesive bonding is done within 5-8 minutes, and depends on the porosity of the substrate and the adhesive material and on the ambient temperature. The bond is completed after 4-6 hours.

- pH-Value: 8,3
- No marking required
- Consumption: 160-180 g/m²



56 852

White mosaic glue

100 g

Plastic bottle with painting nozzle closure

PE 6

56 853

White mosaic glue

250 g

Plastic bottle with painting nozzle closure

PE 6

Transparent mosaic glue „Rapido“

This adhesive is uniformly and thinly applied to the mosaic surface either with a brush or a wooden stick. Preferred substrates being vessels, such as vases, bottles, jars, lanterns etc..

The adhesive spreads easily, but does not run away because it is thixotropic, that is, set as a drip fast adhesive. After that it must dry for at least 30 minutes. During this time, the liquid contained therein evaporates. This is important because in the bonding of glass with glass, the moisture found in-between the join can no longer escape, which is important for the effectiveness of the adhesive.

Therefore, finally the prepared mosaic stones can be immediately layed onto to the adhesive surface easily. This should always be done over a small area of 50 x 50mm. After checking the consistency of these stones, they are firmly pressed in the adhesive layer. They are then firmly bonded with it and do not slip off so that work can be continued immediately and the next stones can be laid.

The adhesive adheres not only on to glass, but also onto metal, ceramic, porcelain, cement and concrete surfaces, wood and plastics.

Product Features:

Colouring:

Scope of Application:

Adhesive Substance:

Curing:

Thinly spreadable, thixotropic (non-drip) emulsion adhesive. transparent

Ideally suited for bonding mosaic stones and is particularly suited for such objects where the stones have to be glued to vertical vessels or substrates, as immediately after placing and pressing firmly the stones adhere to it and therefore do not slip. Excellent contact adhesive, based on a copolymer in combination with acrylic acid ester allows a fast and secure bonding with.

After application of the adhesive onto the substrate, the moisture must evaporate out of the adhesive. A period of 30 minutes is sufficient. The use of the so-prepared bonding surface can then immediately used or used up to a period of 8 - 10 days. This is particularly is advantageous in the design of large wall mosaic work surfaces. Then the entire area is first prepared (for example, coated with the adhesive) and then the mosaic is placed on. After the solid pressing of only a slightly glued stone, the bond is immediate, they are then fixed and can not be removed.



- pH-Value: 6,5
- No marking required
- Consumption: 100–110 g/m²



56 881	Transparent mosaic glue „Rapido“	50 g	Plastic bottle with painting nozzle closure	PE 6
56 882	Transparent mosaic glue „Rapido“	100 g	Plastic bottle with painting nozzle closure	PE 6

3-D silicone glue

Completely odourless, viscous adhesive silicone, which is especially good for attaching glass and plastic stones, objects made out of cardboard, wood, metal, etc. on glass, metal and wood surfaces. In addition, it is used for laying under forms and model cut-out parts made out of paper, cardboard, textiles etc., for example, to create 3-dimensional picture illustrations. The glue dries odourless and semi-transparent. There is also the possibility to colour the adhesive silicone with transparent or opaque silicone colour paste. On the basis of its pollution-free composition (containing no acetic ester *), it is possible work comfortably with it in kindergartens, schools or workshops (no odour). 3-D-Silicone adhesive is supplied in a handy aluminium tube, together with an elongated, narrow spout-nozzle, a tube key and detailed instructions.

Product Features:

Thick-viscous (pasty) silicone adhesive, ready for processing straight from the tube. Is processed odourless!

Colouring:

Almost transparent - can be coloured with colour silicone pastes (Art. 60 717).

Application:

Bonding of objects made of metal, wood, glass, ceramic, natural stone and textiles. Works well for gluing mosaic onto consumption and decorative glasses. What is particularly advantageous is that the mosaic stones that are firmly pressed into the silicone layer do not slip off during the curing of the adhesive material. Due to its elasticity, the silicone is suitable for „flexible“ stiffening of textiles (beveling, bands, etc.) that are used for decorative designs. With this adhesive, also polystyrene and impregnated cotton wool lino parts can be stuck on any surface. The adhesive application should be evenly thin.

Adhesive Substance:

Transparent, odourless silicone adhesive, elastic yet form-stable in curing. It is pollution-free, therefore, also suitable for gluing by children from 6 years of age with adult supervision.

Curing:

3-D silicone adhesive ensures an immediate adhesion of the bonded parts. The full curing takes place within 4-6 hours.

- No marking required
- Consumption: 180–195 g/m²

*Silicone adhesive causes a vinegar-like odour usually with processing, which can cause headaches in sensitive people. The silicone adhesive manufactured by us is different: it is completely odourless!

77 806

3-D silicone glue

80 g

SB set with Aluminium tube and accessories PE 6



Porcelain and ceramic glue

In order to be able to safely and firmly stick broken pot spouts or vessels of earthenware, ceramic or porcelain, the break points are thinly coated with this specially developed adhesive. It is advantageous if they were moistened with water beforehand, because the adhesive is evenly spread on the breaking point and it then fits perfectly. The adhesive is also suitable for the bonding of all other stone-like objects made of ceramic casting materials: gypsum, cement, concrete, bisque ware, ceramics. Due to its chemical composition, it is also used for the repair of terracotta and clay vessels.

Product Features:

Medium-viscosity, water-resistant adhesive dispersion.

Colouring:

White, remains white after bonding.

Scope of Application:

For the secure bonding of stone-like usable and decorative objects (pots, cups, plates, flowers and planters, ceramic tiles, marble benches, etc.), this adhesive is used with high-quality porcelain and ceramic produced with resin additives. * The adhesive is brushed on to the previously to the broken edges of the parts which are wetted with water beforehand. The parts are then adjusted and pressed-held together for 4-10 seconds.

Adhesive Substance:

Practical stone adhesive dispersion, polymer modified, combined with a high quality polyvinyl acetate which fully hazardous substance-free.

Curing:

The adhesive bonding takes place within seconds and provides a permanent bonding which ends after 4-5 hours.

- pH-Value: 4,8
- No marking required
- Consumption: 170–180 g/m²

* In order to normally clean the repaired items in a dishwasher, after the end of the curing, they should be coated with transparent cold glaze (Art. 50 100). Then they are tightly covered with a thin, protective resin film (glazed).

77 662

porcelain and ceramic glue

90 g

Plastic bottle with thin nozzle closure

PE 6



Glass mosaic stone glue

This excellent adhesive is especially suited for bonding to glass surfaces, such as decorative jars, vases, picture glass plates etc.. It is applied to both bonding parts where it must pre-react for about 10 minutes (air). This is important, because when gluing glass to glass, the moisture can not escape, which is what happens during this pre-reaction time. What remains is the pure adhesive substance which allows an immediate adhesion of the glass parts. It also does not slip on a vertical glass and bonding parts are firmly glued after 6-8 hours. Should the bond be done faster, the glass container completely decorated with mosaics is placed in the oven and tempered at an oven temperature of 80°C for 30 minutes. Thereafter, the bonding is completed. The glass vessel is finished by filling the joints with transparent (Art. 56 871) or white grout (Art. 56 866).



Product Features:

Gel-like adhesive substance, is easy to apply (spread) and is especially suitable for glass, glazed or metallic objects. Crystal clear transparent.

Colouring:

Scope of Application:

Transparent adhesive for glass and ceramic stones on glass, ceramic, metal. In addition, for bonding all solid, non-porous items, repairing (sticking together) of glass, ceramic, porcelain parts or adhesions of glass to stone, metal and wood. For a firm and secure bonding, both bonding parts are thinly coated and must dry for about 10 minutes (Moisture must escape from the glue) and then firmly pressed together. Important: the stronger the pressure exerted, the firmer the adhesive bond.

Adhesive Substance:

Aqueous mixture of calcium silicate that, after airing out the liquid contained, acts on the glass parts so that an immediate bonding takes place. This process can by heat accelerated and be adjusted. The adhesive, in a liquid, not yet cured state, can be easily remove the with a wet cloth.

Curing:

The bond is completed within 5-6 hours. By placing the article in an oven, the curing is reduced by 30 minutes at an oven temperature of about 80°C.



- pH-Value: 9
- No marking required
- Consumption: 60-75 g/m²

56 857	Glass mosaic stone glue	50 g	Plastic bottle with painting nozzle closure	PE 6
56 858	Glass mosaic stone glue	100 g	Plastic bottle with painting nozzle closure	PE 6

Plastic mosaic stone glue

Highly viscous, transparent adhesive dispersion with fast adhesive bonding that is particularly well suited for the bonding of mosaic stones made out of plastic. It is possible to create a firm and secure adhesion to glass, metal, wood, plastic, etc. For bonding, the adhesive surface is either completely coated with the adhesive or the plastic stones thinly coated with the adhesive and pressed directly on the adhesive surface. It is also possible to attach these stones to perpendicular objects without the parts sagging or sliding down. The bonding parts inserted (pressed) into the adhesive coating remain at the exact position where they were pressed into the adhesive fluid during the following reaction time (curing) of the adhesive.

Product Features:

Thick glue fluid can be distributed and applied well with the outflow-slice on the glue bottle.

Colouring:

White, is transparent after drying.

Application:

bonding of plastic parts made of polystyrene, PMMA, PA, PC, ABS with glass, wood, metal and other plastics. Therefore the adhesive is also ideal for bonding mosaic stones made of plastic. Accidentally spilled adhesive material can be easily removed with a wet cloth in a not yet cured state.

Adhesive Substance:

Thick pulpy adhesive dispersion based on acrylic acid esters.

Curing:

The adhesion of the adhesive parts occurs immediately and is completed within 3-4 hours of a further reaction time of the glue.

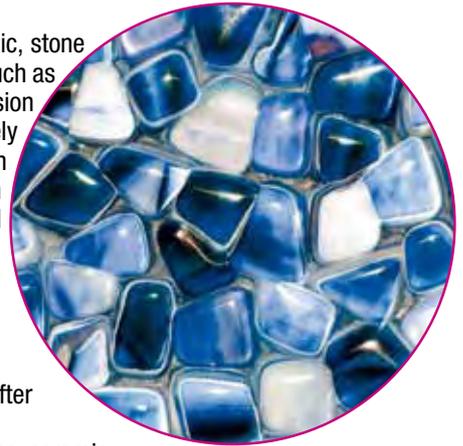


- pH-Value: 9,4
- No marking required
- Consumption: 210 g/m²

56 876	Plastic mosaic stone glue	50 g	Plastic bottle with painting nozzle closure	PE 6
56 877	Plastic mosaic stone glue	100 g	Plastic bottle with painting nozzle closure	PE 6

Transparent mosaic glue

With this highly viscous, transparent adhesive, mosaic tiles made out of glass, ceramic, stone and plastic, can be glued quickly and securely on all hard, non-absorbent substrates, such as glass, painted wood surfaces, plastic, metal, ceramic and porcelain. Due to the adhesion strength of the adhesive, perpendicular standing glass parts can be quickly and securely covered with mosaic stones and bonded, so that they do not slip off after they have been fixed by pressing and selectively applied to the mosaic adhesive liquid. This adhesion technology is very economical because only a small amount of adhesive is required and at the same time creates a great adhesion to the glass substrate.



Product Features:

Medium-viscosity adhesive substance that is applied and forms dots on the mosaic stone and therefore adheres to vertical surfaces.

Colouring:

White adhesive liquid that will be completely transparent after curing.

Application:

Bonding of all natural mosaic stones, apart from out of glass, ceramic and plastic on to glass, ceramic, plastic and metal surfaces. To this end, the stone is covered with a small adhesive dot, then pressed and adjusted accordingly on to the glass surface. It bonds immediately and also will not drop off from vertical glass vessels. Ideal for creating fantastic looking mosaic surfaces that will be appreciated everywhere, as a picture, coasters, vases, lanterns. After curing, the adhesive bond is no longer visible because it has become transparent.

Adhesive Substance:

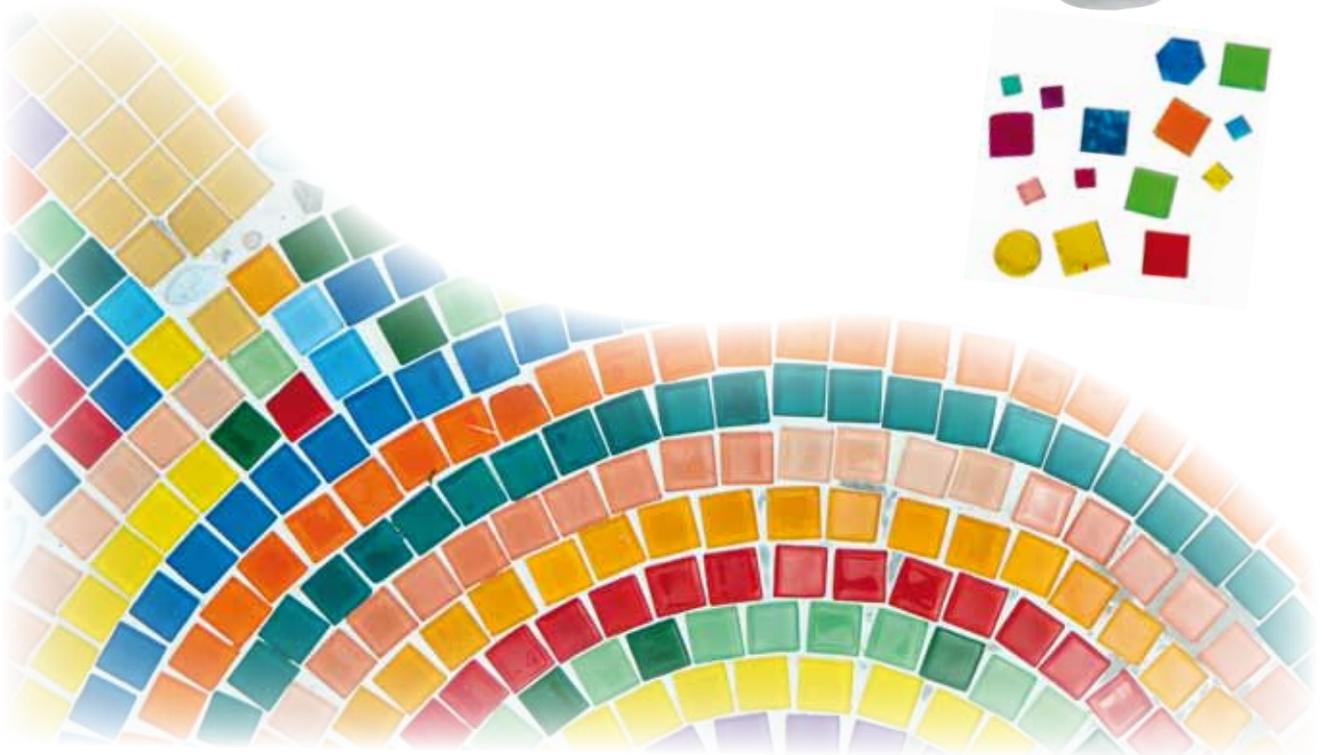
Fast-acting adhesive dispersion prepared on the basis of acrylic acid ester in combination with calcium carbonate. Due to the unique chemical composition of this adhesive it creates an effective sticking point bond with the decorative object immediately after application on the mosaic stones. The adhesive effect is so strong that the joining part can only be slightly changed (shifted), but otherwise remains where it was positioned.

Curing:

The final curing and thus the end of the bond is reached after 8-12 hours, depending on the adhesive layer thickness and the ambient temperature.



- pH-Value: 6,7
- No marking required
- Consumption: 125-140 g/m²



56 861	Transparent mosaic glue	50 g	Plastic bottle with painting nozzle closure	PE 6
56 862	Transparent mosaic glue	100 g	Plastic bottle with painting nozzle closure	PE 6

Adhesives for use in model, dioramas and nativity scenes

Construction of terrains

After the basic design structure of a landscape or a diorama, which is possible by combining supplied sawn-wood or cut-out cardboard pieces with matching foam components, the laying of wire or modelling mesh follows.

The model, that is made up of designing and creating beautiful structures, mountains and valleys, is additionally thinly over-trowelled with Creaplast designing plaster! Thereby creating the basic ground model for the landscape construction.

What follows is the painting of certain areas, the creation of roads, flock-spraying of meadows and fields, and the laying out of the rivers and lakes with small stones to fill them afterwards with a medium that imitates water.

So gradually the landscape shows a piece of nature, a particular season and lends itself to be complemented and embellished with houses, vehicles, people, animals and decorative accessories: trees, clumps of grass, flowers, fences, benches, etc. For this, different adhesives are used, which therefore must not be left out of this theme-based adhesive catalogue:



Model and landscape glue

It goes without saying that a model with a natural landscape with meadows, flower meadows, cultivated fields, soil etc. is designed. For this, the surface of the ground is painted in the appropriate place with the model and landscape adhesive and the velvety velour flock (77 892) sparsely or intensely scattered and bonded. Following the same procedure, also sand and waterfront areas are covered with fine sawdust (65 121.51) and moss braids (65 281). Rivers and boulder fields are filled with suitable small stones (river pebbles, red rock, gray quartz rock or gravel (65 101 ff) so that a natural looking water course (stream, etc.) is created.

The adhesive is characterized by special properties:

- Uniform course
- Excellent adhesion
- Dries to matt transparent.

Product Features:

Medium-viscosity adhesive dispersion, easy to apply with a slightly thixotropic state characteristic. It is thereby possible, to work in desired structures.

Colouring:

colour white, alters in the drying and becomes transparent matt.

Scope of Application:

Base adhesive for the model and scenery construction, whereby the versatility of this adhesive offers universal application opportunities, in addition to skilfully gluing wood, cardboard, foam and similar materials. It also combines with landscape surfaces moulded out of plaster bandages and thus offers all bonding possibilities, which is necessary for further designing and modelling of landscape. Particularly advantageous is the fact it offers the possibility of colouring with colour pigments (71 511).

Adhesive Substance:

Viscous dispersion of a vinyl acetate polymer, mixed with special fine fillers and a thixotropic. The adhesive cures almost insoluble in water and very firmly. the not-yet cured adhesive can be removed with water (washed off) in a fresh state by tools and instruments .

Work tools:

Due to the making of thixotropic, it provides a quick initial adhesion, which allows the individual decorative parts to be adjusted and fitted. Therefore, the bonding time was also set so that actual firm adhesion takes place at first only after 3 to 4 hours, depending on the ambient temperature.

Curing:



- pH-Value: 8,0
- No marking required
- Consumption: 180–200 g/m²

77 931	Model and landscape glue	100 g	Plastic bottle with wide nozzle closure	PE 6
77 932	Model and landscape glue	250 g	Plastic tin	PE 6

Manger glue

This paste, that after curing has an elasticity, is used for gluing together the components of nativity scenes (cribs), model landscapes or Dioramas. Because of its low viscosity and high transparency it is also suitable for sprinkling or mixing with baubles, sawdust, confetti (scraps of paper), flock, decorative flakes, small stones (gravel) and sand. It has a good adhesion to paper, cardboard, wood, Styrodur®, stone, plaster and textiles and dries matt.

Product Features:

Universal paste with faster initial adhesion for secure, elastic bonds.

Colouring:

Greeny-yellow adhesive liquid that hardens transparent after drying.

Application:

bonding of materials such as wood with wood, cardboard, plaster, cured plaster bandages, stone, polystyrene, wood shavings, powder red cork and other natural materials.

Adhesive Substance:

Elastic curing paste, prepared based on an aqueous resin dispersion consisting of butoxyethoxy ethyl acetate.

Curing:

The thread-free bonding and rapid initial bonding results in a solid bond within 20 minutes.

- pH-Value: 4,5
- No marking required
- Consumption: 90–100 g/m²



77 977	Manger glue	250 g	Plastic bottle with wide nozzle closure	PE 6
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Laser cut adhesive „Universal“

Due to its rapid initial adhesion and the thread-free processing of the adhesive, it is excellently suitable for the solid bonding of laser cut parts that are used in the field of card modelling. The liquid adhesive penetrates into the open carton edges, but does not cause swelling or buckling. For this, a solid, non-soluble adhesive bond is created that is compatible with the polystyrene parts used and bonds these just as tightly.

Product Features:

produced with a faster initial adhesion, multi purpose adhesive, thread-free!

Colouring:

Transparent, pleasantly scented glue.

Application:

Bonding of thin laser-cut cardboard and PU plastic parts.

Adhesive Substance:

Aqueous resin dispersion based on vinyl acetate

Curing:

Takes place within 15 to 20 minutes. The bond is completed after 30-40 minutes.

- pH-Value: 7,6
- No marking required
- Consumption: 75–85 g/m²



77 901	Laser cut adhesive „Universal“	30 g	Plastic bottle with painting nozzle closure	PE 6
77 902	Laser cut adhesive „Universal“	90 g	Plastic bottle with painting nozzle closure	PE 6

Special adhesives

The diversity of this program is complemented by this versatile adhesive program:

Liquicoll

The solvent-based adhesive is suitable for tight and secure bonding of a variety of objects of different materials, such as cardboard, wood, formica, hard plastic, felt, rubber, leather, EVA, rigid PVC (not suitable for soft PVC). The contact adhesive is applied on both sides, one side on non-absorbent material and then has to dry for 10-30 minutes. After that the joining follows. The bond is fixed immediately.

- Product Features:** Low viscosity, well-spreadable contact adhesive with excellent adhesive effect.
- Colouring:** Yellowish transparent - dries in this colour as well.
- Application:** contact adhesive for solid and secure bonding of shoes, bags and other leather parts, synthetic rubber products, cardboard and wood joints, coated with formica components, plastic parts made of rigid PVC, EVA etc. Also bonds metal with wood, glass, etc..
- Adhesive Substance:** Solvent-based contact adhesive - made on the basis of polychloroprene - completely free of asbestos fibres, toluene and cyclohexane.
- Curing:** The adhesive material should evaporate (air) after application and react within 2-3 hours. The bond can be achieved by the use of an infrared lamp and can be reduced to 6-10 minutes.

- Marking: Xi (Irritant)
- Consumption: 80-110 g/m²



77 621	Liquicoll	50 g	SB-set	Aluminium tube	PE 6
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Epoxy-2K-glue

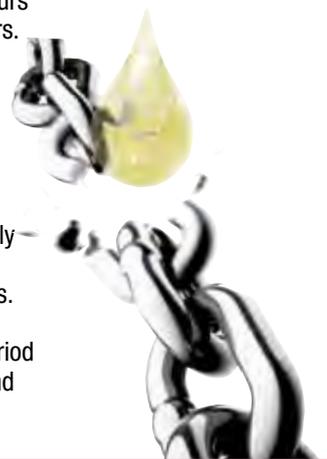
The 2-component epoxy adhesive is comprised of 2 bottles each filled with 30g of resin and hardener and is mixed in the ratio 1: 1. This results in a transparent, thin-bodied adhesive compound that is extremely useful in impregnating (bonding) of natural tissue. The mixed adhesive liquid changes its viscosity during the curing reaction that immediately commences and it becomes continuously thicker until it can even be applied with a spatula after 2-4 hours. Each viscosity stage offers a special application option:



Pre-reaction time	Adhesive type and technology
5-20 minutes	Impregnating textiles.
5-30 minutes	Impregnating fabrics for lamp shades, that after a reaction time of 2-3 hours wraps around the lampshade frame and is firmly bonded with it.
20-60 minutes	Coating of surfaces sprinkled with decorative materials such as glass beads, glass stones, pieces of wood, glitter, flock, flakes, sequins, glueing of different materials, such as wood with wood, with glass, metal...
60-80 minutes	Gluing of broken ceramic pieces, for example, to glue a porcelain spout on a teapot, handle to a terracotta jug, etc.
60-120 minutes	Bonding of glass, ceramic or natural stone to perpendicular objects, such as glass vessels and vases.
80-150 minutes	Gluing of metal brackets or other parts of polystyrene, glass, ceramic, metal or mounting plates
Finesse:	The adhesive can also be dyed, which is possible with resin tinting colours (50 116), which are available in transparent, opaque and metallic colours.

- Product Features:** Low-viscosity, constructed on an epoxy-base 2-component adhesive.
- Colouring:** Transparent - cures glass-like, firmly.
- Scope of Application:** bonding glass to glass, metal, ceramics, porcelain and other materials
- Adhesive Substance:** The adhesive substance is constructed based on an epoxy system and mixed in the ratio of 1: 1 and is as a thin liquid adhesive ready for application. With a longer pre-reaction the material thickens and is finally so strong and tough that it can be applied with a spatula/grouted.
- Curing:** The product offers a range of working lives and related adhesive options. Dependent on temperature, it hardens within 10-12 hours. The reaction phase from liquid to viscous, trowelable adhesive takes place over a period of 2-4 hours. The final curing and bonding is achieved after 12 hours and can finally be loaded after 72 hours.

- Marking: Xi (Irritant)
- Consumption: 240-300g/m²



77 627	Epoxy-2K-glue	60 g	SB-set		PE 6
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Sponge rubber glue

With a soft brush, a bonding part, such as small flowers cut out of foam rubber are thinly brushed with this universal adhesive. After a pre-drying/airing time of 20-30 minutes, the adhesive object is placed on a pin board and lightly pressed. The foam rubber part is firmly connected to the table, but can be removed and re-glued somewhere else at any time. It can be re-glued onto other surfaces such as window glass, doors, cupboard spaces, etc., and then can be removed again and stuck somewhere else. This universal re-gluing can be repeated about 200 times. A cabinet-door can be turned into a playing surface where children can decorate the surface with small wooden or foam rubber parts of a farm or a zoo. By the removal of an individual decorative part and re-gluing, these parts move – and play begins!

Alternatively, a pin board can be coated with this adhesive so not only paper notes can be stuck to it, but also pencils, keys and other small items that can be removed again at any time.

Additionally, in the field of occupational therapy this foam rubber adhesive (Moosgummikleber) offers diverse play, practice and learning possibilities in order to spread fun and joy with the prefabricated foam rubber or pieces of wood. This „game idea“ has generated great interest, it is easy to handle and is fascinating because a sense of success can be achieved. Also well-known fairy tales can be authentically recreated and experienced in a playful way.

Product Features:

Low viscosity, well-spreadable adhesive liquid that is applied directly from the bottle on to a substrate (object) with the painting tip.

Colouring:

White adhesive liquid which, after airing the moisture contained therein, is colourless transparent, thereby indicating that it is ready for bonding.

Application:

Manufacture of pin boards that can be used again and again. For covering with light play figures or decorative figures, such as foam rubber or polystyrene parts that can be tacked to any smooth surface. They can be taken off again and tacked somewhere else (pinned on) at any time.

Practical tool in the school, where for example, several individual parts of a map cut out of pieces of polystyrene can be properly attached together to fit on a blackboard. Finally, on this, previously cut marking pointers as cities can be attached. The parts attached to the blackboard or polystyrene plate can be removed at any time and re-tacked again elsewhere. A practical, applicable refined teaching aid, that offers a diversity of application possibilities.

A pin board contaminated by use, like all other adhesive parts are rinsed with cold soapy water. This loses its adhesion and ingrained dirt drops off. After drying, the adhesive properties automatically returns.

Adhesive Substance:

Curing:

An aqueous adhesive polymer prepared on the basis of an acrylic dispersion. The adhesive spread onto the object requires approximately 25-30 minutes to dry in air (evaporation of liquid contained therein), it then remains sticky, so that the coated parts can be used for sticking and re-sticking over 200 times.

- pH-Value: 6,8
- No marking required
- Consumption: 80–90 g/m²



Applying the magnetic lacquer to the sponge rubber parts, then it must dry for about 30 minutes (air).



The moisture evaporates from the adhesive and the tackiness remains. The stamped parts can now be tacked onto smooth surfaces, and removed at any time again and be attached elsewhere anew.



Play can now begin!



Styrofoam Adhesive

The solvent-free glue polystyrene bonds polystyrene with polystyrene, with paper, with cardboard, wood and textiles. The bonding takes place within 2 to 3 hours. The adhesive is also suitable for the superficial brushing on a polystyrene plate that will be sprinkled with baubles, flakes and other decorative and effect materials, for example, for the design of signs, picture plates.

Product Features:

Medium viscosity, an adhesive liquid well-spreadable with a brush.

Colouring:

White.

Application:

bonding of polystyrene parts, such as the assembly of polystyrene structures, bonding with paper, cardboard, wood, textiles, tissues etc.,. Moreover, as an open-adhesive coating to be used on decoration surfaces which subsequently will be covered (sprinkled) with litter materials of wood, suede, flock, wool, sand, and are firmly bonded with it.

Adhesive Substance:

An aqueous dispersion adhesive based on acrylic acid esters.

Curing:

The adhesive is applied to both bonding parts and must then pre-react for 20-30 minutes. After that, the glue parts are placed together, adjusted and fixed with gentle pressure. After 2-3 hours the bonding is perfect and complete.

- pH-Value: 5,2
- No marking required
- Consumption: 92-100 g/m²



77 841 Styrofoam Adhesive 50 g Plastic bottle with wide nozzle closure PE 6

Polystyrol - colourplast and modelling glue

Medium-viscosity, solvent-containing special glue, which is especially good and suitable for joining manufactured parts made from polystyrene, such as cars, planes, ships and model houses, as well as for melted decorative parts made from Colourplast. The bonding of these plastic parts is fast and thread-free with this adhesive.

Product Features:

Medium-viscous, gel-like, well-running one-component adhesive.

Colouring:

Yellowish transparent.

Scope of Application:

By applying the gel-like adhesive dispersion to the plastic parts to be glued, first a little solvent is applied, they then firmly bond with each other, which occurs within a few seconds. In this, the filler contained therein simultaneously ensures the filling and sealing, if necessary, of gaps and crevices during this „cold-welding „. The application of the adhesive is only on one side. That's why it is important that the adhesive parts are pressed firmly together for a few seconds. The solvent contained in the adhesive is not harmful*.

Adhesive Substance:

Preparation of basic organic substances, mixed with ethyl acetate, hazardous additives and other derivatives.

Curing:

While the adhesion takes place immediately after application of the adhesive, it takes about 3-10 hours until the final solid bonding occurs, depending on the plastic material used (polystyrene) and the ambient temperature.

- Marking: Xi (Irritant)
F (Highly flammable)
- Consumption: 40-50 g/m²

*The adhesive is not suitable for bonding polystyrene foam.



77 732 Polystyrol - colourplast and modelling glue 50 g Aluminium tube PE 6

Glass and metal foils

When it comes to bonding glass to glass, the usual adhesives stop. For this adhesion technology, an epoxy resin is particularly well-suited because it adheres well on these materials and thus offers the good and secure bond required.

Glass UV adhesive (2-component adhesive)

For the bonding of glass panes, an adhesive is required that allows a longer adhesive open adhesive-time. This is necessary because, for example, already with the superposition of the glass plates, care must be taken that the surfaces are not afflicted with air pockets and that they then afterwards can be pushed back and forth, so that a bubble-free glass and adhesive surface is formed.

With this modified glass UV adhesive based on 2-components, this is possible. Additionally, it is interesting that the adhesive composition can be dyed with transparent (50 116) or metallic (50 121) resin tinting colours. This results in glass surfaces that are transparent coloured, translucent or metallic and can act like a mirror.

The SB-pack contains:

- 1 bottle of UV glass glue and hardener each with 50 g
- 2 small plastic spatulas
- 2 small measuring/mixing cups of 30 ml
- 1 detailed instructions

Product Features:

Transparent 2-component glass adhesive, which, because of its good course and excellent flowability, offers various application opportunities.

Colouring:

Transparent, water-clear glass adhesive.

Scope of Application:

The adhesive is made of resin and hardener, and is mixed in a ratio 1:1. This results in solid and durable bonds, with glass, metal, wood, etc. In addition, bonding parts made of glass and metal, such as handles, can be glued together. Additionally, it is possible to insert thin objects in the adhesive liquid so that they will be glued in-between the glass panes, for example, films, dried grasses, coloured slides, notes, documents, photos, etc.

Adhesive Substance:

Consists of a solvent-free UV resistant 2-component Epoxy system

Curing:

The ready mixed adhesive mixture is applied with a brush or spatula on to the adhesive surfaces and hardens within 10 - 12 hours and is insoluble. During the initial adhesion the bonding parts can still be moved around up to a period of 60 minutes and fixed so that a bubble-free bonding takes place.



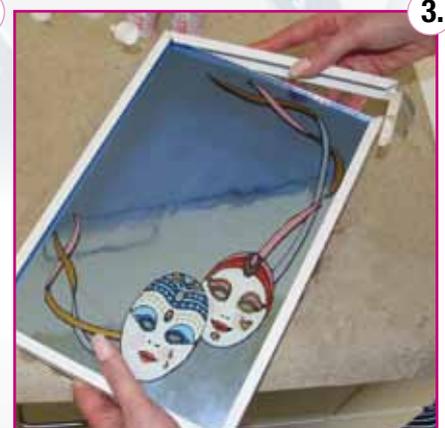
- Marking: Xi (Irritant)
- Consumption: 195 g/m²



Apply the glass UV-adhesive on both glass surfaces.



Put the glass plates partially together and sway them so that there won't be any air bubbles inbetween.



Fit the glued glass plates into the suitable frame.

Metal foil glue

In order glue wafer-thin metal foils or beat sheet metal (gold leaf) on wood, glass, metal or cardboard, these materials are thinly coated with this gilding size. The adhesive must then dry for at least 30 minutes (evaporation). During this time, the moisture will evaporate from the adhesive, which is important, because after the metal foil is placed on the bonding object, it is no longer possible as the metal foil is not impermeable by water. Therefore, the gilding size is also suitable for bonding thin wood veneers, as well as for metal and plastic films, which is subsequently placed on the adhesive surface and firmly rubbed onto it. Afterwards, the bond is already finished.

Product Features:
Colouring:
Scope of Application:

viscose adhesive liquid with good flowability milky turbid, but after airing is transparent.
 Bonded wafer-thin metal and gold leaf sheets, edge veneer out of wood, metal and plastics with any solid substrate of wood, metal, glass, plastic, ceramic, cardboard, etc.
 An aqueous dispersion adhesive based on acrylic acid esters. After airing the adhesive liquid - which takes at least 30 minutes, the object to be bonded can either be immediately laid or ground or hours or even days later (up to 2 weeks possible). The bond is then immediately finished and completed.



- pH-Value: 4,8
- No marking required
- Consumption: 75 g/m²

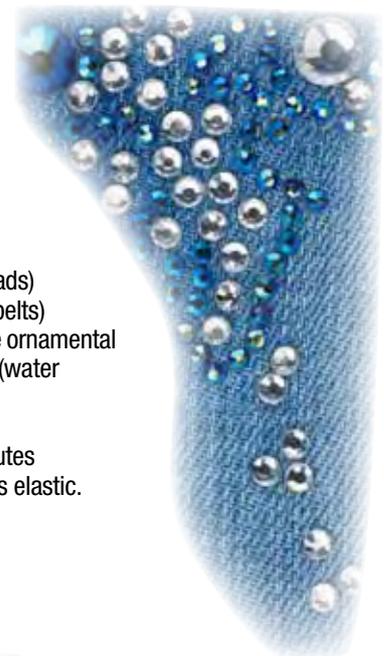
77 822	Metal foil glue	50 g	Plastic tin	PE 6
77 823	Metal foil glue	250 g	Plastic tin	PE 6

Jewellery stone adhesive for glass and metal

This special adhesive can be used for the invisible bonding of metal filigrees, buttons, plastic and glass stones or glass jewellery on textiles, on synthetic fabrics. After the complete bonding of these parts with the textiles they are washable up to 30°C.

Product Features:
Colouring:
Scope of Application:

Medium viscosity, gel-like adhesive liquid that adheres to all surfaces, wood, glass, metal, plastics, textile fabrics (wool, linen, silk, etc.), polystyrene, leather, etc..
 Transparent - remains crystal clear even after curing.
 gluing of small ornamental parts made of glass, plastic (buttons, beads) metal (rivets, chains), wood, (buttons, beads) leather (attachments, belts) of textiles, metal (picture frame), wood, etc. After the sticking of these ornamental and decorative parts on to textiles, it can be washed as normal (water temperature up to 30 °C.) Ironing is done on the reverse side!
 A solvent-free dispersion-based butoxyethoxy.
 The adhesive is characterized by a rapid initial adhesion of 1-2 minutes and cures within 3-4 hours, whereby the adhesive point still remains elastic.



Adhesive Substance:
Curing:

- pH-Value: 6,6
- No marking required
- Consumption: 90 g/m²



77 601	Jewellery stone adhesive for glass and metal	40 g	Plastic bottle with painting nozzle closure	PE 6
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Effective handicrafts

3-D Deco liner

In order to be able to paint or write effective decoration labels (congratulations, proverbs, images) on different substrates such as greeting cards, door signs, boxes, polystyrene parts, frames, stones, bottles, etc. the 3-D Deco liner is used. This creates a thin, three-dimensional adhesive lines that outline a picture, ornament or lettering. While these lines at the beginning have a white appearance, the colour becomes transparent within the following 30-minute modified „airing-time“, in which the moisture escapes from the adhesive line shows a solid contour. This is still sticky. This is important because on top of this, an effects film/foil is placed and firmly rubbed and then immediately removed. The colour of the contour has changed and now shows a fantastic metallic lustre, which can be, for example, silver, gold or multi-coloured.

By rubbing the effect foil, the coating on this foil/film bonds with the adhesive coating line and separates from the foil when its peeled away, so that only the deposited paint coating on the bond line remains.

With this ingenious adhesion technology, other items can be quickly and easily embellished with this unique effect. In addition to image and text lines, any shape, relief-like structures, areas, circles, dots can be coated with this adhesive. It is advantageous that the adhesive liquid can bond to almost any surface, except on plastic surfaces. After the laying on of effect film follows.

Instead of the “effect” film, a similar appearance can be achieved by sprinkling on tinsel, fine metal powder pigment and velour flock. These products also stick with this adhesive, whereby any excess material is shaken off the coating object by turning over.

Product Features:	High-viscosity adhesive liquid, that cures within 30 minutes after flowing out and being applied simultaneously onto different substrates. It still remains sticky.
Colouring:	Milky-white, becomes transparent after evaporation of the liquid contained therein.
Scope of Application:	painting and writing of thin, 3-dimensional glue lines on any selected decorative and objects. After curing, the objects are coated with an “effects” medium, such as an “effects” film, fine metal powder pigment, flake or velour flock.
Adhesive Substance:	thickened with thixotropic agents and mixed with acrylic acid ester dispersion.
Curing:	The airing of the adhesive from which the moisture contained therein evaporates takes place within 20-30 minutes. After that, the glue line or surface produced from it is firm and hard, but still remains sticky and can be decorated or sprinkled within a period of 10 days with an “effects” medium, for example, “effects” foils, metal powder, velour flock or ultra fine polyester tinsel.

- pH-Value: 6-7
- No marking required
- Consumption: 100-120 g/m²

77 881	3-D Deco liner	30 g	Plastic bottle with painting nozzle closure	PE 6
77 882	3-D Deco liner	50 g	Plastic bottle with painting nozzle closure	PE 6

3-D Deco liner metallic set

With this versatile adhesive liner, simple labelling and self-made individual greeting cards, gift tags, books (guest books, telephone books) decorating small boxes or candles is possible within minutes. The finish product is then a perfectly designed personal gift!

Everything you need is included in this set:

- | | |
|--|------------------|
| 1 3-D deco liner painting tip with 30 ml | |
| 2 metal “effects” films, gold colour | size 100 x 80 mm |
| 2 metal “effects” films, silver | size 100 x 80 mm |
| 2 metal “effects” films, colourful colours | size 100 x 80 mm |
| 1 Detailed Instructions | |



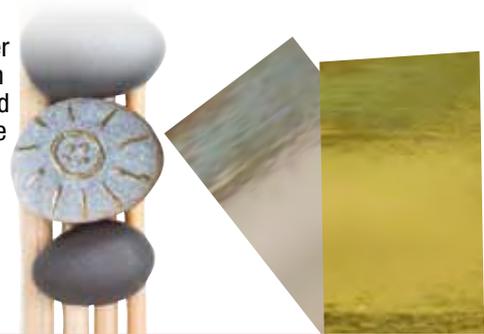
77 895	3-D Deco liner metallic set	SB-set	PE 6
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Metallic effect foil

For complete surface gilding, for example, book covers, maps, etc., the 3-D Deco liner is filled in a small container and diluted with a little water. Then with a brush it can be applied to the object. Approx 30 minutes later the "effects" foil is carefully unrolled onto the surface and rubbed with a soft brush and then immediately peeled off. The gold plating (silver plating) is achieved and completed.

Package Contents:

- 3 sheets of foil 200 x 300mm in the colours:
- Gold and Silver



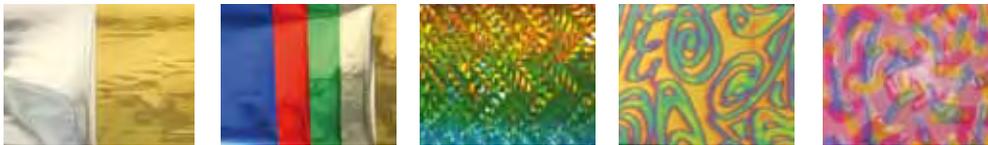
77 897 Metallic effect foil 200 x 300mm (6 pcs.)

SB-Set

PE 6

Metallic effect foil set

These are extremely wafer- thin "effects" films with vaporised, coloured metal oxides that are excellently suited for ink/paint transfer on to contour lines previously painted or written with the 3-D glue pen.



01 gold/2 silver

02 5 x various metal colours

90 6 x Rainbow (bright colours)

91 6 x Reflex colour (hologram-like)

92 6 x colourful metallic foils



Package Contents: 6 sheets 220 x 100 mm.



77 895 Metallic effect foil 200 x 300 mm

SB-set

PE 6

Velvet velour

Glass vessels with a flattering velvet surround coating have been ever welcomed gifts and decorative items. Especially when a tealight is lit and set inside it, creating a play of colours that tantamount figures scurrying back and forth. The Production of these parts is pretty easy. The template or stencil is inserted into the glass that it lays firmly on the glass (possibly even stuff the glass with a soft cloth). Then, the image contours are traced with the 3-D Deco Liner and the resulting picture fields thinly spread with the material. This can also be done with a brush, when the liquid adhesive has previously been slightly diluted with water. After drying, the glass surfaces is sprinkled (powdered over) with the velvet velour and excess material is shaken off. The decoration is finished.

Velvet velour is bottled in small plastic tube-bottles closed with a mesh sieve, which is suited for sprinkling the material on the substrate surface. Material no longer used is afterwards filled back into the bottle. Velvet velour is also suitable for other decorations, for example, covering lids of boxes, photo frames, gift tags, etc.



Colours:



01 pink



08 light red



10 dark red



13 purple



20 dark blue



23 medium blue



35 dark green



37 lightly green



45 lemon yellow



47 golden yellow



51 medium brown



62 orange



68 white



78 black



77 891 Velvet velour

100 ml

Plastic tin with vibrating screen PE 6

Metal powder

The fine metal powder pigment, also called bronze powder can be scattered directly on the bonding surface prepared with 3-D Deco Liner. Excess powder is shaken off afterwards. Thereby creating an extraordinarily nice-looking metallic effect. Even more interesting is when the surface is covered with a pattern, for example, an ornament. For this purpose, first, the contour lines of the ornament are painted and sprinkled with a single-coloured metal powder. After shaking off the non-needed powder, a specific area or all areas covered by the 3-D Deco Liner are sprinkled with another coloured metal powder. This operation can be repeated several times with different metal-powders.

colours:



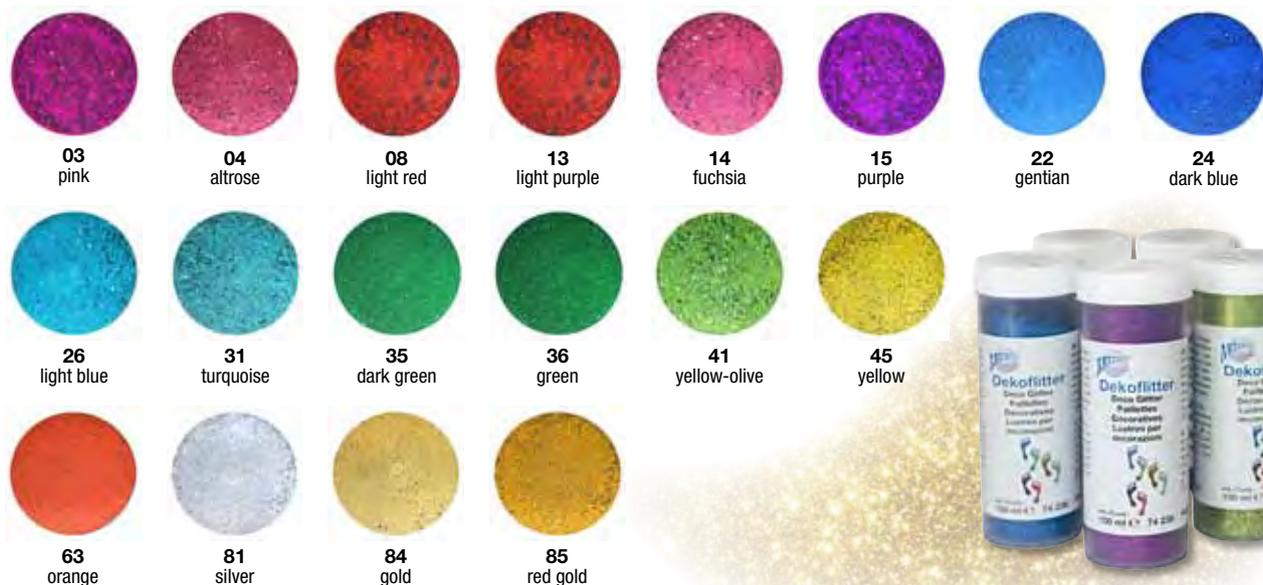
10 red 17 red-violet 21 dark blue 38 green 81 silver 84 gold 87 copper



70 121 Metal powder 20 ml Glass bottle PE 6

Decoration glitter „extra fine“

Decorating a surface, e.g. the lid of a chipboard box or ceramic box starts with the painting of a simple image design. Then a gradual colouring of the resultant image areas with different paint colours or painting with the Deco Liner which is then sprinkled with glitter. This creates a delightful gift or a unique piece of decoration, that after its completion, is exciting and intriguing!



03 pink 04 altrose 08 light red 13 light purple 14 fuchsia 15 purple 22 gentian 24 dark blue
26 light blue 31 turquoise 35 dark green 36 green 41 yellow-olive 45 yellow
63 orange 81 silver 84 gold 85 red gold



74 236 Decoration glitter 100 ml Plastic tin with vibration screen PE 6

Decoration glitter

The most beautiful colour effects are created by the skilful mixing together of different tinsel colours. Famous Artists have been inspired with the composition of this tinsel mix and have created unique theme compositions, each of which represents a treasure. Use this tinsel when you love exceptional brilliance mixed with fascinating effects.

So you can conjure up evocative decorations because a tropical-red-gold for example reflects the fiery glow of the setting sun and a skarabae green-gold reflects the shimmer of precious chitinous exoskeleton of a unique beetle. Decorative tinsel mixes at their finest!



09 Tropical red-gold 15 Lavender Purple 23 Comet blue 31 Glacier green-blue-silver 35 Skarabae green-gold 63 Indian Summer orange-gold



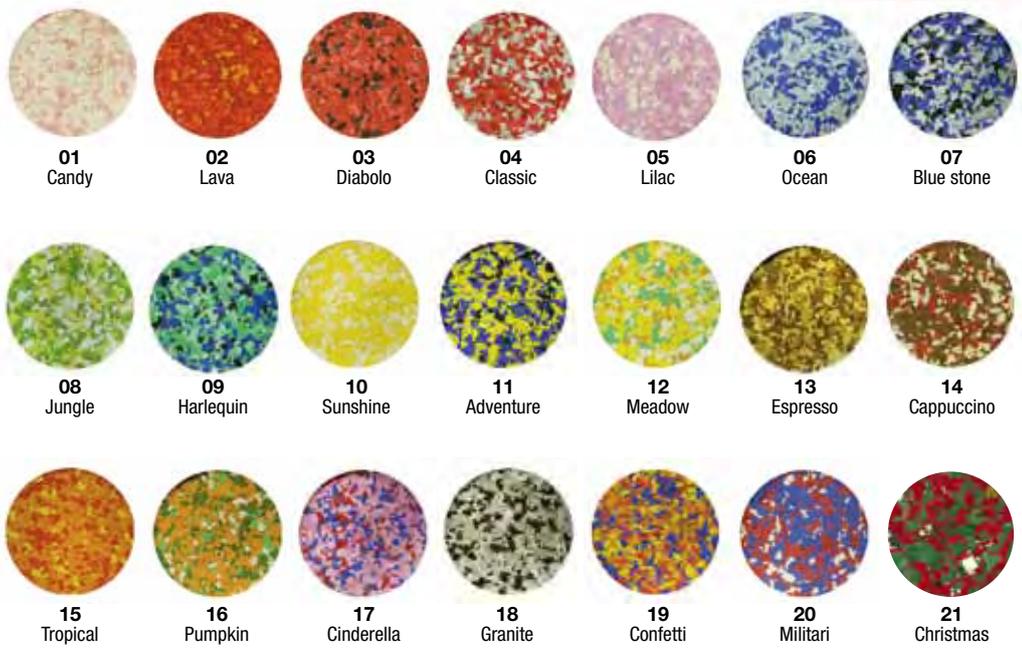
74 251 Decoration glitter 100 ml plastic tin with vibrating screen PE 6

Decoration flakes

Coloured Flakes are small irregularly broken colour-platelets, that are made out of a micro-fine epoxy paint. They are excellent for coating the surfaces of decorative objects that contain a fascinating, never to be repeated nor imitated surface outfit, as a result of the sprinkling of the "Confetti". This suited to wooden boxes, greeting cards, pictures and mirror frames, coasters, and tiles that alone are transformed into a wonderful picture by the mere sprinkling of this play in colour. Glass plates, bowls and vases take on a new sophistication and refinement whereby the flakes are stuck on the bottom or in the vessels directly on the inside surface.

For this purpose a special tip: do not completely cover surfaces with it, instead, between large colour fields or lines break the effect up with Verre 3-D black, ivory or gold-colour. This gives the subject its individual and unique look.

For the manufacture of the adhesive substrate you should best use cold transparent glaze (50 101), because after the curing, it also resistant to water and the vase as can be filled with water as usual.







To better understand the technical terms used in the explanation of the different adhesives, some of these specialized terms are described here in somewhat more detail:

Setting

Hardening of the adhesive (cured) by physical or chemical processes

Setting time

Period of time during which the adhesive changed from a liquid to a solid state and achieves the necessary strength .

Airing time

Contact adhesives must air before bonding , that is to say, the compression of the parts to be joined. Alongside this, the evaporation of the moisture contained in the adhesive (water or solvent). The joining parts should only be compressed when the moisture has escaped from the adhesive surface (evaporated). This is particularly important in bonds which are covered with moisture-permeable bonding parts (metallic or plastic film etc.) (glued).

Adhesion

Binding forces between the bonding parts and the adhesive.

Aerobic adhesives

These adhesives are those to be understood as where the oxygen content in the air causes curing.

Initial adhesion

Setting time of the adhesive in order to stick the bonding parts together. During this time, the adhesive pieces can be moved, adjusted.

Pressure

Numerous adhesives only effect a bond when they are pressed firmly together. The contact pressure is often more important than the curing.

Application scope

A product can be used for an application. Most of the time still further alternatives are offered in parallel so that the material is even more versatile and can be used. In this case one speaks of the application scope which is reflects the versatility of this product.

Curing time

Each adhesive requires a certain time period in which it reacts and the bonding is effective. This period is referred to as curing. The time factor of the curing time starts, with 2-component adhesives, in the moment when the resin and hardener are mixed. With 1- component adhesives, it starts with applying the glue on one of the parts to be joined.

Dispersion

Undissolved substances, at least two, incorporated into an adhesive liquid, which do not or hardly dissolve with each other or combine chemically.

Dispersion adhesive

This refers to a solid blended with a liquid. In dispersion adhesives, the binder consists of a synthetic resin that does not dissolve in water, instead disperses it, so it is very finely distributed . Dispersion adhesives are usually built on the basis of polyvinyl acetate (PVAc =), copolymers or polyacrylate. They are also known as paste or white paste.

Final strength

The fully cured adhesive develops a maximum strength, which is given as a final strength in square centimeters (N/cm²).

Final hardness

See final strength

Fixing

This is understood as the holding together of bonding parts (adhesive parts) that is achieved by means of clamps, screw clamps or the temporary holding together with nails or screws.

Bonding parts

Sticking together is always done by joining two objects, referred to herein as a bonding parts.

Raw material

Is to be understood as the main component of a chemical that substantially determines the property of the adhesive. That is the power contained therein, for example, in a biological adhesive.

Animal glue

Natural glue that is made from animal waste from the skin or bone (eg, fish, rabbits, skin, bone or hide glue) .

Hardener

Understood as the 2nd component of a two-component adhesive which is mixed together with the 1st component, that results in the mixed reactive adhesive substance.

Dry-bond adhesive

Permanent adhesive which adheres to smooth surfaces that can be removed and re-glued somewhere new.

Resin

Base element of a 2-component adhesive which is mixed with the 2nd component (hardener).

Hot glue

These adhesives, which are also known as hot or hot melt adhesives are solvent-free and change their usually solid consistency by heating and then liquid. In this state, the adhesive is at its adhesive effect, which remains even when the adhesive has cooled again.

In contrast, there are cold adhesives that are commonly used as specialty adhesives for the bonding of roofing felts etc. Usually this term refers to an adhesive can be processed at normal room temperature (20°C).

Indicator

when an adhesive fluid cures, the appearance is changed. For most adhesives, the adhesive is a transparent white colour. In this case, the colour change is a chemical reaction, which is referred to as an indicator.

Casein paste

The paste is made from the milk altered to low-fat curd casein. It is a natural glue that is water resistant and heat resistant and is included as an ingredient in wood glues.

Adhesive surface

Is the surface to be coated with the adhesive.

Adhesive joint

Is the gap between the joining parts, and that must be filled with the adhesive for the bonding effect.

Adhesive layer

The amount of adhesive required that must be applied to a joining area for bonding.

Adhesive film

The thin adhesive layer, which is required for the bonding of a metal foil, for example, with a pressure-sensitive adhesive. It is also referred to as adhesive film or glue film.

Paste

are adhesives that are made from renewable raw materials from aqueous source products from starch or organic cellulose ethers.

Cohesion

Is understood as the bonding layer within the adhesive layer.

Contact life

The open time (time period) of a contact adhesive (one-component adhesive), in which two seemingly dry adhesive layers can still be connected.

Shelf life

This is understood as the time how long the adhesive is durable. As all products, adhesives are also subject to an ageing process, which is why these products only have a limited shelf life. The period of shelf life begins with the manufacture of the product and ends when it can not be used in the way intended. The product may be unusable after this deadline or otherwise defective.

Latex adhesive

This is a dispersion which is prepared on the basis of natural and synthetic rubber. The glue is very fluid and is often used as a contact adhesive for bonding leather and textiles.

Paste

Original designation for aqueous adhesives based on protein (gluten), which are made from animal, vegetable or synthetic raw materials, e.g. bones, milk (casein). This results in rubbery, elastic adhesives.

Solvent

Synthetic fluids that can also be incorporated as binders in adhesives and ensure that these can be processed/applied well. As they evaporate quickly, they cause the adhesive to cure quickly.

Mixing ratio

Two - component adhesives are usually made up of the glue as a base material and to make them reactive, are mixed with a hardener. The two components must be mixed in a certain ratio to each other, which is expressed as the mixing ratio.

Wet bonding time

The bonding time for adhesives is stated. It is the time after application of the adhesive on to the bonding parts, in which the bonding must take place.

Open time

The processing time is specified. It is the time that is still available after application of the adhesive on to the bonding parts in order to perform the bonding in a timely manner. It is important with adhesives, where prior to use, the moisture contained therein has to evaporate.

Polymers

The artificial adhesives are, in a hardened state, polymers. They are closely related to plastics and are therefore for the production of artificial adhesives. e.g. used as copolymers.

Polyurethane paste

This glue is one of the most modern compositions and is often referred to as PUR-paste. It is waterproof and next to wood bonds all the other glue-able materials.

Polyvinyl acetate

The abbreviation of this is PVA. A dispersion is prepared from this adhesive, which is used in many adhesives, particularly wood adhesives (e.g. white paste).

Polymerization

In polymerization, small molecules (monomers) combine. There arise in giant molecules without altering their composition.

Temper

This refers to a hardening process that occurs through the influence of heat. A large number of plastics respond to a heat supply, and some adhesives cure faster. The term temper is also understood as a faster cure carried out under the action of heat, which is also referred to as thermosetting.

Pot life

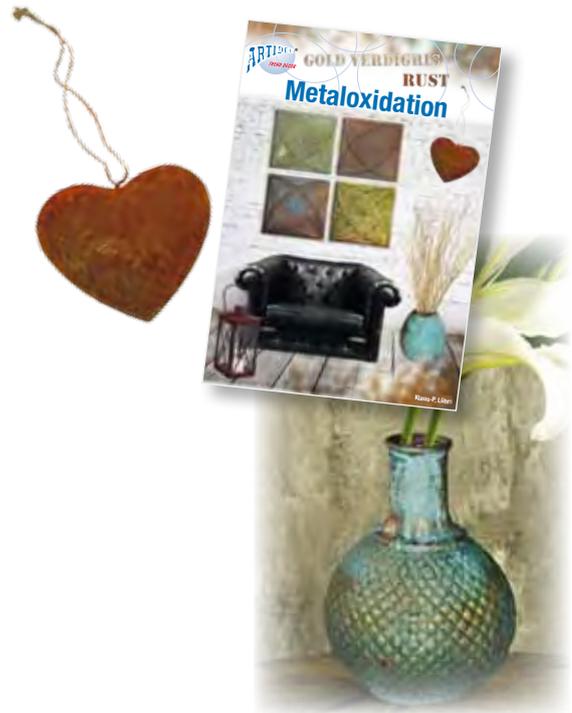
This is the time from the start of mixing a two -component adhesive up to the gelling or curing. The pot life is the time period mentioned when processing of this product is possible. After this time it hardens.

Metal oxidation

With these system components every object made of cardboard, wood, Styrofoam, plastic, metal, leather, stone, ceramics, cement or many other materials, can be covered with a unique authentic rust or copper rust. So you can change the look of all these items completely. The technique for this is easy: If necessary, treat the object with the universal ground first (important if used with glass, metal or plastics). After drying you go on applying the iron- (rusty) or metal-ground (copper-rusty) followed by another drying period of about 60-80 minutes. Thereafter, you cover the surface with one of the six different oxidation mediums and you achieve the chemical reaction you want.

Depending on the subfont, the iron ground generates a typical, natural rusty surface with colour variety from light yellow-brown to rustic red-brown. The metal ground allows you colourings from golden to coppery with a fascinating verdigris effect in different shadings. This is up to the oxidation medium you use and ranges from patina-brown to white-green, turquoise or strong blue-green.

Take all further information out of this booklet.
Metal oxidation, 24 pages



05 141	Metal oxidation (German)	Instruction	PE 6
05 142	Metal oxidation (English)	Instruction	PE 6

Mould making lexicon

In this dictionary you can find the definitions for all technical terms and expressions that may appear during the making of forms in descriptions or data sheets etc. They are explained in an easy way or described exactly.



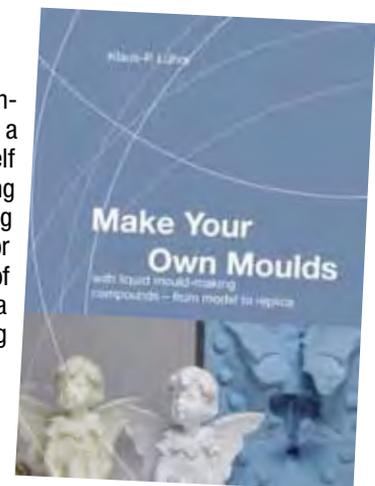
05 165	Mould making lexicon (German)	lexicon	PE 6
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Make your own moulds

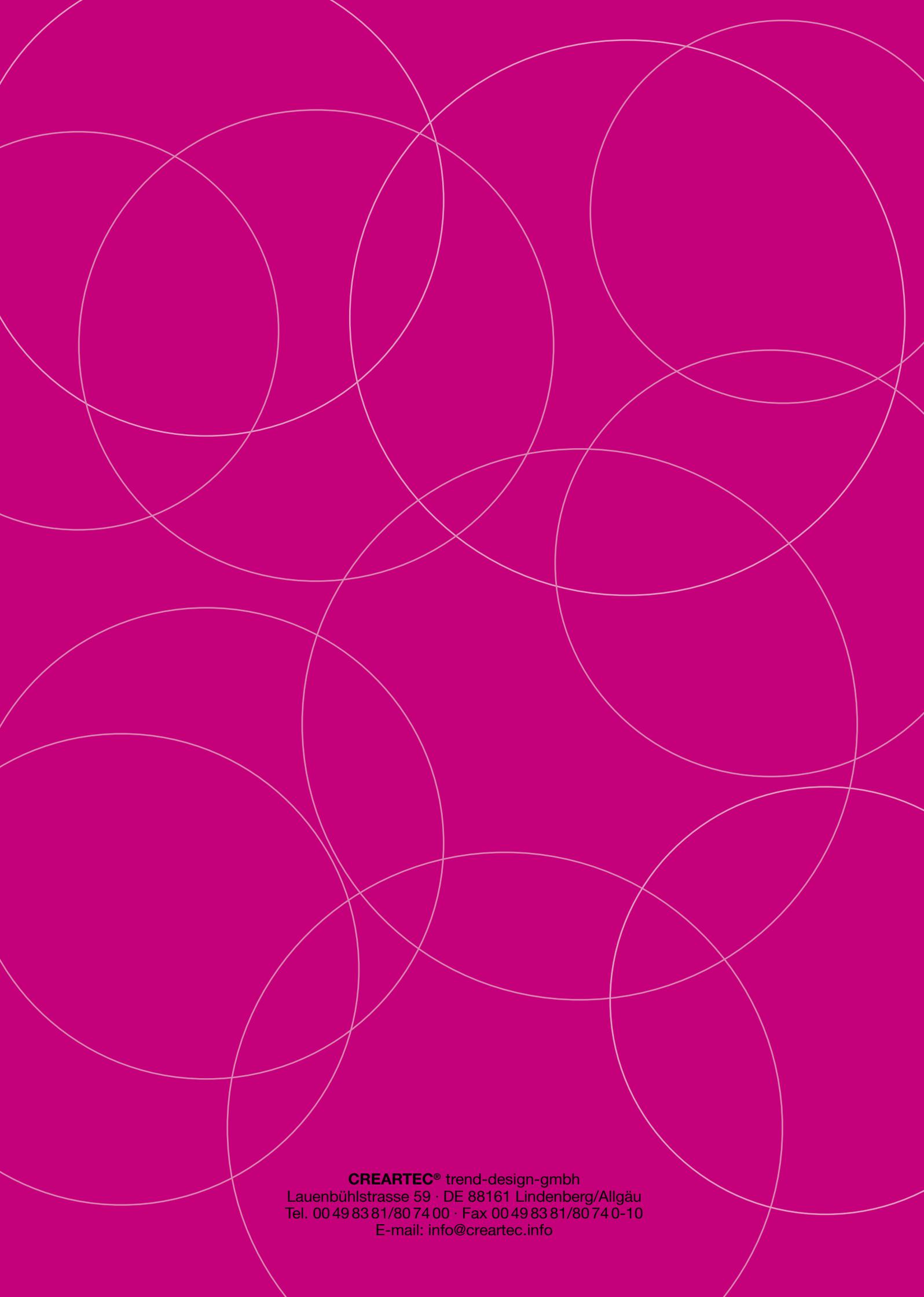
With liquid mould-making compounds from model to replica

Moulding of an object is one of the most difficult but also the most interesting handicraft techniques. After all, it is unique and fascinating to see how an original is duplicated by using a rubber-like silicone material to cast it. That requires absolutely the premise to inform yourself not only about the materials you can use for your purpose but also about the way of proceeding step by step. This is exactly what this book is doing. It introduces successive into the interesting field of moulding, describes the different materials and helps you to choose the right product for the technique you chose. It shows with simple texts and demonstrative pictures the making of a simple one-part-mould that you can use to cast a relief and leads you to the instruction of a multi-part figure casting. All this makes approaching and understanding of this mould making technique easy and quickly learnable.

240 pages, 75 drawings and more than 200 coloured pictures.



05 172	Make your own moulds (German)	Book	PE 6
05 173	Make your own moulds (English)	Book	PE 6



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