

## Lascaux Adhesives and Adhesive Wax

### Water-dilutable Acrylic Adhesives 303 HV, 498 HV, 498 20-X

#### Base

The two types 303 HV and 498 HV are thickened with acrylic copolymer. Type 498 20-X contains 20% Thinner X. All types have a pH 8-9 and are biocide stabilized.

#### Filmproperties

	303 HV	498 HV 498 20-X
Minimum film formation temp. (MFT):	approx. 0°C	approx. 5°C
Glass transition temperature:	approx. - 35°C	approx. 13°C
Elongation at break:	> 1000%	approx. 400%
Dry film:	sticky, clear	elastic hard, tack-free, clear
Minimum sealing temperature:	approx. 50°C	68-76°C

#### Solubility

Water-dilutable, insoluble in water after drying.  
303 HV: dissolves well in acetone, toluene, xylene.  
Swellable in ethanol or white spirit.  
498 HV and 498 20-X: dissolve well in acetone, ethanol, toluene, xylene. Insoluble in white spirit.

#### Applications

For light-resistant, non-ageing, non-crosslinking linings, marouflages, laminations, collages etc. For wet application or reactivation of dry film, on absorbent and non-absorbent supports such as paper and cardboard, textiles, wood- and fibreplates, polyesterplates, plaster and concrete, glass and acrylic glass, aluminium etc.

Lascaux Acrylic Adhesive 303 HV is extremely elastic; the dry film remains permanently tacky. Can be used as a contact adhesive when doing hot-sealing linings.

Lascaux Acrylic Adhesive 498 HV has a strong elongation at break, and is suitable for wet and dry applications (reactivation with solvents). Standard type for linings and marouflages.

Lascaux Acrylic Adhesive 498 20-X is especially suited for strip-lining, fabric marouflages and mounting.

#### Safety

Please observe safety information on the safety data sheet.

#### Storage

Keep containers closed, when not using the product.  
Store at constant temperature between 5°C and 25°C.

#### Sizes

Acrylic Adhesives 303 HV: 4001.62 jars of 1 l  
Acrylic Adhesives 498 HV: 4005.18 bottles of 85 ml, 4005.62 jars of 1 l, 4005.78 buckets of 5 l  
Acrylic Adhesives 498 20-X: 4010.62 jars of 1 l, 4010.78 buckets of 5 l

### Heat-Seal Adhesive 375 P

**New toluene-free formula**

Product evolution of BEVA.

Toluene-free. The proven Heat-seal Adhesive 375 in a new formulation.

#### Base

Based on a mix of copolymer resins and paraffin. 40% dilution in Propylal and white spirit 100/140. Propylal is the environmentally and health-friendly alternative to aromatic solvents.

#### Properties

- Activation temperature: 62-65°C
- Acid value: below 1
- Colour: milky white when cold, transparent when sealed
- Viscoplastic, excellent adhesion and ageing resistance

#### Solubility

Soluble in Propylal and in aromatic solvents such as toluene or xylene. Insoluble in alcohol.  
Dilutable with aliphatic solvents such as petroleum benzine (white spirit) 100/140. Acetone swells the Lascaux 375 P and reduces its adhesive properties.

#### Use

For lining of paintings on canvas, with or without interleaf, for mountings of paper and textile, for strip lining. For facings and for the consolidation of paint layers. For temporary and permanent bondings.

#### Application

Lascaux Heat-seal Adhesive 375 P is applied by

spraying, brushing or with a roller. HSK 375 P can be applied directly. If desired, the adhesive 375 P can be gently heated in a water bath and diluted with propylene or petroleum benzine / white spirit 100/140 at a ratio of approx. 2:1 to 1:1.

We recommend applying two coats to achieve higher strength.

The adhesive 375 P is applied cold or warm (heat increases penetration). For spray application, it is advisable to dilute the adhesive with propylal to reduce the viscosity.

Only after all solvents contained have completely evaporated (approx. 24 hours) the lining or sealing can be carried out properly.

For linings, Lascaux Heat-seal Adhesive 375 P is applied either on the lining canvas or on an interleaf (e.g. polyester non-woven). The dried adhesive layer is sealed at approx. 62-65°C on the heating table under a slight vacuum or using an iron or hot air gun. Heat activation can take place after days or weeks.

To strengthen and consolidate primers and paint coats, the adhesive 375 P is preferably diluted 1:4 with petroleum benzine (white spirit) 100/140 or, if compatible, with Propylal for better penetration (warm solutions also improve penetration). Seal after complete drying at 62-65°C and under light pressure. The adhesive 375 P can be removed either with heat or solvents such as acetone or white spirit 100/140.

#### **Safety**

Dangerous goods. Please observe the safety data sheet.

#### **Storage**

Keep containers tightly closed and store in a cool and dry place.

#### **Size**

4021.66 cans of 1 l, 4021.83 buckets of 5 l

## **Heat-Seal 375 Dry Mixture**

A 40% solution is prepared as follows:

1. Put 1.65 kg of Heat-Seal 375 Dry Mixture (incl. resin which is enclosed in a small plastic bag) into a container with a lid and add 1.5 kg (i.e. 1.7 l) of Toluene.
2. Let the mixture soak for at least 12 hours.
3. Place the container into a water bath and heat the mixture to approx. 60°C (140° F) on an electric plate in a well ventilated room (no open flame). Keep the container lightly closed.

4. Stir mixture occasionally until a uniform solution is obtained.
5. Successively add 1 kg (or 1.4 l) pure Benzine 100/140 (naphta) and stir until a homogenous solution is obtained.
6. It is recommended to warm the solution for the application as this facilitates the process (except during warm weather).
7. This preparation makes for approx. 4.15 kg (i.e. 5 l) 40% Heat-Seal Adhesive 375 solution. Keep the container well sealed during the period of cooling.
8. For the application of the 40% solution of Heat-Seal Adhesive 375 refer to our data sheet.

#### **Safety**

Please observe safety information on the safety data sheet.

#### **Storage**

Keep containers closed, when not using the product. Keep in a cool and dry place.

#### **Size**

4025.83 buckets of 1.65 kg

## **Heat-Seal Adhesive 375 Film**

Heat-Seal Adhesive 375 Film is specially designed for the preparation of thin adhesive layers as required in the conservation of artworks on paper and for linings on canvas. The transparent surface allows for accurate cutting and mounting. This is of great value particularly in applications such as collages, where close positioning is vital, and for consolidating fragile or delicate materials.

Heat-Seal Adhesive 375 Film only develops its adhesive action when heated or activated by a solvent. It can therefore be applied in loose or flakey areas and fixed accurately in position while the adhesive component is inactive. The adhesive is then activated with a hot-air fan at a temperature of 65° C (150° F). Heat-Seal Adhesive 375 Film can be removed from absorbent surfaces with Hexane or Acetone, providing these solvents will not damage the artwork. These solvents do not dissolve the adhesive but cause it to swell up. Care should therefore be taken to prevent contamination of the absorbing material.

#### **Size**

4026 rolls of 6 m x 69 cm, 65µm

## **Adhesive Wax 443-95**

#### **Base**

Lascaux Adhesive Wax 443-95 is a compound of a microcrystalline wax and a synthetic polyterpene resin. The resin serves as an elastomer and tackifying

agent, provides excellent adhesive and bond strength, improves moisture resistance and wettability.

#### Properties

- Melting point 68°C. Softening commences at about 60°C
- Gardner colour No. 4
- Acid No. under 1
- Viscoplastic, excellence adhesion, ageing resistance

#### Solubility

- Soluble in aliphatic and aromatic solvents such as Benzene, Turpentine Oil, Thinner X, Toluene, etc.
- Insoluble in Alcohol

#### Uses

This product is used for all conventional canvas linings; for Fibre Glass Fabric linings where the lining must be totally transparent, and for sandwich linings. Its ease of handling and quick hot-tack make it highly advantageous for bonding jobs and temporary as well as permanent mounting work, such as balsa wood backing, which can easily be disconnected with a hot air gun. Another use is that of facing; both when diluted in solvents or as a solid.

#### Application

For most jobs, it is best to keep the compound in a liquid state, in a double boiler, at a constant temperature of about 60°C. Apply in the usual way with brush, roller or spatula, as thinly and evenly as possible.

A hot air gun may also be used. Optimum results are, of course, obtained on a hot table, at a temperature of about 50-60°C. Sealing occurs at 68°C on the hot table, at best under vacuum. Smaller objects may also be sealed with a pressing iron. The relatively sharp melting point permits quick bonding, mounting, backing, etc., with excellent adhesion. Disconnection with a hot air gun is very easy.

#### Size

4030.57 Aluminium tins of 750 g

## Polyamide Textile Welding Powder 5350

#### Base

Thermoplastic copolyamid resin.

#### Properties

Melting point of 90-100°C.

#### Uses

It is used as a hot-melt adhesive for textiles and leather. In conservation it is widely used for tear-mending of paintings on canvas. The tensile strength is sufficient in most cases. If higher tensile strength is required, type no. 256, which has a melting point of 105-115°C, can be used.

#### Application

Polyamide Textile Welding Powder is a hot-melt adhesive. The easiest way of application is to stick a hot soldering needle into the powder and then apply the melted polyamide.

Another method consists of melting the polyamide powder with an iron between two sheets of Hostaphan film, in order to obtain a coat of approx. 1-2 mm thickness. After cooling, the polyamide coat is cut in very thin strips. These strips are then used together with the soldering needle to weld the threads.

#### Size

4040.17 jars of 50 g, 4040.62 jars of 500 g

#### Disclaimer:

The information provided above is given to the best of our knowledge and is based on our current research and experience. It does not absolve the artist from the responsibility of first testing the suitability of our products for the substrate and specific use conditions he or she has in mind. This technical sheet will become invalid with any revised edition. The latest update is always found on our website.

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