

## Lascaux Adhesives and Adhesive Wax

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### Water-soluble 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

<b>303 HV:</b>	<b>498 HV, 498-20X:</b>
Minimum film formation temp. (MFT): approx. 0°C	approx. + 5°C
Glass transition temperature: approx. - 31°C	approx. + 13°C
Elongation at break: approx. 1000%	approx. 400%
Dry film: sticky, clear	elastic hard, non-stick, clear
Minimum sealing temperature: approx. + 50°C	approx. + 68-76°C

#### Solubility

Water-thinnable, insoluble in water after drying. Permanently soluble in Acetone, Alcohol, Toluene, Xylene. 303 HV: Slightly soluble in White Spirit. 498 HV and 498 20-X: 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: Jars in 1 l  
Acrylic Adhesives 498 HV: Bottles in 85 ml, jars in 1 l, buckets in 5 l  
Acrylic Adhesives 498 20-X: Jars in 1 l, buckets in 5 l

### Heat-Seal Adhesive 375

#### Base

Based on a mix of ethylene vinyl acetate copolymer, cyclohexanone resin, phthalate esters of hydroabiethyl alcohol and paraffin.

#### Properties

- Activation temperature: 62-65°C
- Acid value: below 1
- Colour: colourless when cold, translucent when sealed
- Viscoplastic, excellence adhesion, ageing resistance

#### Solubility

Soluble in aromatic solvent like Toluene or Xylene. Insoluble in alcohol.

#### Dilution

Can be diluted with White Spirit, Benzine 100/140. Acetone swells Lascaux Heat-Seal Adhesive 375 and loosens its adhesion but does not dissolve it. Insoluble in alcohol.

#### Uses

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 can be applied by spraying, brushing or with a roller. Usually, it is desirable to slightly warm Lascaux Heat-Seal Adhesive 375 in a waterbath and dilute it 2:1 to 1:1 with Benzine 100/140, in order to get the consistency of light cream. Cold or warm application is possible, although warming the Lascaux Heat-Seal Adhesive 375 solution will increase penetration. For spray application, dilute with

Toluene, in order to reduce the viscosity.

Lascaux Heat-Seal Adhesive 375 is activated only after all solvents required for its application have evaporated (12-24 hours).

For lining Lascaux Heat-Seal Adhesive 375 is best applied either on the lining canvas or on an interleaf (e.g. polyester non woven). Heat activation after drying of the solvents at approx. 62-65°C on a hot table, or with an iron or a hot air blower. Heat activation can be done days or week after application of the Lascaux Heat-Seal Adhesive 375.

If Lascaux Heat-Seal Adhesive 375 is used for the consolidation of paint layers, it should be diluted 1:4 Benzine 100/140 or White Spirit, or with Toluene to increase penetration (check solubility of paint layer first). Heat activation after complete evaporation of the solvents and under light pressure.

Removal of Lascaux Heat-Seal Adhesive 375 can be achieved by the use of either heat or solvents like Acetone or Benzine 100/140.

#### **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**

Cans in 1 l, buckets in 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**

Buckets in 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**

Rolls of 5 m x 69 cm

## **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, excellent 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**

Aluminium containers in 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**

Jars of 50 g. Bottles of 250 g and 500 g

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#### **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.