

# deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

## TECHNICAL DATA SHEET

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## Lascaux Heat-Seal 375 Dry Mixture

### Basis

Ethylen-Vinylacetat-Copolymer, Cyclohexanon-Resin, Phthalatester of Hydroabiethylalcohol, Paraffin.

### A 40% solution is prepared as follows:

1. Put 1.65kg of Heat-Seal 375 Dry Mixture (incl. resin which is enclosed in a small plastic bag) into a container with a lid and add 1.5kg (i.e. 1.7l) 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 1kg (or 1.4l) 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. 4.15kg (i.e. 5l) 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.

### Properties of dissolved dry Mixture

- 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 water bath 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

Art. Nr. 2061100: 1.65kg