

## ALPATEC 740 1 part textile coating

### Description

This is a 1-part, RTV (Room Temperature Vulcanizing) silicone adhesive sealant. It is one in a range of Acetoxy cure products which are solvent free. During cure, it liberates a very small amount of acetic acid, giving rise to the familiar 'vinegar' odour, which quickly dissipates after cure. It exhibits good primer-less adhesion to many substrates including but not limited to; aluminium, nonferrous metals, steel, glass, enamelled surfaces, fabrics ceramics, thermosetting, thermoplastics and wood and cures rapidly at room temperature when in contact with atmospheric moisture. This product is not to be recommended for use with galvanized metals, ferrous metals, copper and its associated alloys or in electronic assemblies.

### Key Features

- Good resistance to chemicals
- Good resistance to further tearing
- Excellent elongation
- High transparency

### Key Applications

- Complies with Oekotex 100
- Tin free
- Solvent free

### Application

Due to the tin-free, blocked catalyst, the silicone elastomer requires temperatures of 70 – 80 °C for 30 – 40 min and an air humidity of 5 – 7 % for a complete, non-tacky fixation. A higher air humidity leads to a destruction of the catalyst, whereas higher temperatures lead to a premature skin formation, which inhibits the reaction, so that the silicone layer remains tacky. Thicker silicone layers need longer curing times. A layer thickness of > 5 mm should be avoided. Special remark : Direct contact of certain cosmetic articles (skin creams) with the silicone layer can lead to a change in colour. We therefore recommend carrying out pre-trials in production with these care products in use and to point this out on the ready-for-use products if necessary.

### Use and Cure Information

This product is a ready for use 1 Part system and can be directly dispensed from the original container without mixing. If supplied in cartridges it can be applied using either manual or pneumatic dispensing guns. It can also be applied from bulk containers using conventional drum dispensing equipment.

All surfaces to which the sealant is to be applied should be clean, dry and free from grease, dust, dirt, and loose material. Priming of surfaces is not normally required but in some cases it may be necessary to pre-treat the surface. Please check this in each individual case. For degreasing of non-porous surfaces such as metal, and glass, KORASOLV GL is recommended (use undyed crepe paper or similar). If using as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within the stated tack free time. For optimum bond strength, the thickness of the sealant joint should be a minimum of 1 mm.

The sealant will cure upon exposure to atmospheric moisture, ideally between 20 to 70 °C and >40% humidity. Time taken for cure will depend on the thickness of the joint, humidity and temperature. Increasing the temperature and humidity will accelerate the curing process, do not cure the sealant at or above 70°C as bubbles may form in the sealant and affect the overall physical properties and adhesion. Low temperatures and humidity will retard the curing process. Since curing times progressively increase with the thickness, the sealant depth should be limited to 10 mm. Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days at thicknesses of 1 - 5 mm and 14 days at thicknesses of 5 - 10 mm.

"For pneumatic dispensing of 310 ml cartridges, the recommended pressure is 2.25 to 3.45 bar (40 to 50 psi). Dispensing pressure above the recommended limits may lead to gas bypassing the piston, causing spluttering at the nozzle and poor bead quality"

Solvents and cleaning agents.

For cleaning of the substrates to be bonded: KORASOLV GL.

For cleaning working tools and for removing fresh uncured material: KORASOLV GL

Care must be taken when cleaning synthetic materials which tend to form stress cracks, for example, polycarbonate and acrylic. Please contact our technical service team for advice.

For removal of vulcanized product this can be done by mechanical means or by use of a chemical digester, please contact our technical service team for advice.

### Health & Safety

#### Safety

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.

CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time. The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

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### Property

#### Uncured Product

Color		Transparent
Cure Profile		70 – 80 °C for 30 – 40 min, 5 - 7% RH
Cure Type		Acetate
Density, uncured	DIN 53 479, 23	1.02 g/cm3
Flow, 10 ml		63 mm
Self Bonding		Yes
Skin formation time, paper method	DIN 50 014 - 23/50-2	4 min

#### Cured Product

**Standard climate DIN 50 014 - 23/50-2. Vulcanizate tested after 14 days**

Elongation at Break	DIN 53 504, S 3 A	480 %
Hardness Shore A	DIN 53 505	17
Oekotex 100		Yes
Tear Resistance (N/mm)	ASTM D 624, Die B	3.5 N/mm / 20 ppi
Tensile Strength	DIN 53 504, S 3 A	1.7 N/mm2 / 247 psi

#### Storage

Max Storage Temperature	30 °C / 86 °F
Min Storage Temperature	5 °C / 41 °F
Shelf Life	12 mths

Please observe our safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

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