TECHNICAL DATA SHEET



ALPATEC 124 ROT 1 part adhesive and sealant

Description		Property Uncured Product	Test Method	Value
This is a 1-part, RTV (Room Temperature Vulcanizing) silical adhesive sealant. It is one in a range of Acetoxy cure produ which are solvent free. During cure, it liberates a very small amount of acetic acid, giving rise to the familiar 'vinegar' od which quickly dissipates after cure. It exhibits good prime-le adhesion to many substrates including but not limited to; aluminium, nonferrous metals, steel, glass, enamelled surfa fabrics ceramics, thermosetting, thermoplastics and wood a cures rapidly at room temperature when in contact with atmospheric moisture. This product is not to be recommend use with galvanized metals, ferrous metals, copper and its associated alloys or in electronic assemblies.		Appearance		Thixotropic paste
	a very small	Cure Type		Acetate
		Density, uncured	DIN 53 479, 23	1.22 g/cm3
		Self Bonding	Bii 00 470, 20	Yes
		Skin formation	DIN 50 014 - 23/50- 2	
				7 min
	ecommended for	Cured Product Standard climate DIN 50 014 - 23/50-2. Vulcanizate tested after 14 days		
 Key Features Adheres to many substrates like aluminium, non-ferrous metals, steel, glass, glass fibres, ceramics and other materials Elastic bondings and insulations in the industrial sector Sealants 	Color		Red	
	an famaina	Elongation at Break	DIN 53 504, S 3 A	300 %
		Hardness Shore A	DIN 53 505	44
		Max Working Temp		230 °C / 446 °F
		Min Working Temp		-40 °C / -40 °F
Application	ication	Tensile Strength	DIN 53 504, S 3 A	2.9 N/mm2 / 421
Elastic bondings and insulations in the industrial sector, sealants Use and Cure Information			Bii (00 004, 0 0 M	psi
		Storage		
		Shelf Life		12 mths
This product is a ready for use 1 Part system and	can be directly			12 111113

This product is a ready for use 1 Part system and can be directly dispensed from the original container without mixing. If supplied

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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

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.

Delivery Units

Upon demand

CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com

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