

SILTRUST™ RTV830 TWO COMPONENT ADDITION CURE MATERIAL

Description

SILTRUST RTV830 is a solvent-free, flowable, two component RTV silicone rubber. After mixing the RTV830A and RTV830B at a mix ratio of 1:1 the material will cure by an addition reaction at room temperature. The cure rate can be accelerated significantly by heat. The material has been especially developed for fabric coating.

Key Features and Typical Benefits

- Convenient 1:1 mixing
- Free of solvents
- Pourable
- Good self leveling characteristics
- No release of by-products
- Fast cure at elevated temperatures
- Translucent

Typical Physical Properties

<u>Individual</u>	<u>Unit</u>	<u>RTV830A</u>	<u>RTV830B</u>
Appearance		Translucent	Translucent
Viscosity 20 °C	(Pa·s)	135	50
<u>Mixed</u>		RTV830A : RTV830B 1:1	
Appearance		Translucent	
Pot Life at RT	(Minutes)	100	
Viscosity 20 °C	(Pa·s)	85	

<u>Cured Properties (24 hrs at RT)</u>	<u>Method</u>	<u>Unit</u>	<u>Value</u>
Tensile Strength	DIN53504 S2	(MPa)	4.4
Elongation	DIN53504 S2	(%)	540
Tear Strength	ASTM-D624 B	(N/mm)	25
Hardness	DIN53505	Shore A	26
Modulus at 100% Elongation	DIN53504 S2	(MPa)	0.5
Density		(g/cm ³)	1.03

Typical physical properties are average data and are not to be used as or to develop product specifications.

Specifications

Typical product data values should not be used as specification. Assistance and specification are available by contacting Momentive Performance Materials technical service RTV1 and RTV2.

General Instructions for Use Mixing

Select a mixing container 4-5 times larger than the total volume of material to be mixed. Weigh out the RTV830A and RTV830B components (in a ratio of 1:1 by weight) optionally combined with a pigment paste (like e.g. 1 or 2 percent by weight of Silopren LSR color batch). Stir for several minutes until the material is well mixed. The air entrapped in the mixing step needs to be removed. This can be done by exposing the material to an absolute pressure of 10-20 mbar. The material will expand, crest and reduce to about the original level. Degassing is usually complete about two minutes after frothing ceases.

Automatic equipment designed to meter, mix and dispense a two component silicone liquid elastomer, with optionally a third system to dose and mixes in the pigment, will add convenience to continuous large scale operations.

Compatibility

RTV830 will cure when applied to a clean, dry surface which has been properly prepared. Certain materials such as butyl and chlorinated rubber, sulfur containing materials, amines and certain metal soap-cured RTV silicon rubber compounds can cause cure inhibition. Cure inhibition is characterized by a gummy appearance of the silicone at the interface between the silicone and the substrate. It is recommended that

a sample patch test will be performed with the RTV product to determine if a barrier coating or other inhibition preventing measure is necessary before applying the RTV830.

Curing

Thin coatings of SILTRUST RTV830 can be applied to the substrate by dipping, spreading, knifing or extrusion. Thin films can be cured within 2 minutes at 150 °C depending on coat weight and heat exchange efficiency.

Thicker coatings will decrease the rate of heat transfer and will therefore require a longer cure time or higher cure temperature.

Bonding

Due to the excellent flow and penetration behaviour of SILTRUST RTV830 mechanical bonding is obtained on most fabrics. If a more stringent (chemical) bond is required, than use of a primer will be needed. A suitable primer can be SS4155 or SS4120. The surface of the to be primed substrate needs to be thoroughly cleaned. Cleaning should be done with a non oily solvent such as MEK or IPA. The primer needs to be applied in a uniform thin layer on the cleaned surface. Allow the primer to dry for one hour or more. Apply the freshly mixed RTV830 to the primed surface and cure as recommended. To confirm the bonding performance, it is recommended to do a small scale adhesion test on the substrate.

Availability

SILTRUST RTV830 is available as a pail kit 20 kg A and 20 kg B or as a drum kit 200 kg A and 200 kg B.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions

required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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For literature and technical assistance, visit our website at: www.momentive.com

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