

## SILTRUST™ RTV833 TWO COMPONENT ADDITION CURE MATERIAL

### Description

SILTRUST RTV833 is a solvent-free, flowable, two component tacky RTV silicone rubber. After mixing the RTV833A and RTV833B at a mix ratio of 1:1 the material cures by an addition reaction at room temperature. The cure rate can be accelerated significantly by heat. Material has been specially developed as a tacky fabric coating.

### Key Features and Typical Benefits

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

### Typical Physical Properties

Property	Unit	Value	
		RTV833A	RTV833B
Appearance		Translucent	Translucent
Viscosity 20 °C	(Pa·s)	100	110
<b>Mixed</b>		<b>RTV833A : RTV833B 1:1</b>	
Appearance		Translucent	
Pot Life at RT	(Minutes)	100	
Viscosity 20 °C	(Pa·s)	100	
<b>Cured properties (24 hours RT)</b>	<b>Method</b>		
Tensile Strength	DIN53504	(MPa)	0.7
Elongation	DIN53504	(%)	480
Hardness	DIN 53505	Shore 00	25

Modulus at 100 % Elongation	DIN 53504	(MPa)	0.07
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Typical physical properties are average data and are not be used as or to develop product specifications. The above given values are based on material, which was produced in the pilot plant.

### Potential Applications

RTV833 tacky silicone compound has been specially developed as a tacky coating for fabric. Typical applications include, but are not limited to, lace coating, clothes and conveyor belt coating. RTV833 can also be used for other applications where fast cure at elevated temperatures with a tacky surface and good flow or self-leveling characteristics are required.

### Specifications

Typical product data values should not be used as specification. Assistance and specification are available by contacting Momentive Performance Materials technical services 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 RTV833A and RTV833B components (in a ratio of 1:1 by weight) optionally combined with a pigment paste (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. Exposing the material to an absolute pressure of 10-20 mbar will achieve this. The material will expand, crest and reduce to approximately its original level. Degassing is usually complete within about two minutes after frothing ceases.

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

### Compatibility

SILTRUST RTV833 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 product to determine if a barrier coating or other inhibition preventing measure is necessary before applying the SILTRUST RTV833.

## **Curing**

Thin coatings of RTV833 can be applied to the substrate by dipping, knife spreading or extrusion. Thin films can be cured within two 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 behavior of RTV833, mechanical bonding is obtained on most fabrics. If a stronger (chemical) bond is required, then the use of a primer will be needed. A suitable primer is SS4155 or SS4120. The surface of the substrate to be primed 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 RTV833 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.

## **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](http://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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