

RTV 833

**2 component addition cure material**

**Product Description** RTV833 is a solvent-free, flowable - 2 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 Performance Properties**
- Convenient 1:1 mixing
  - Free of solvents
  - Good self leveling characteristics
  - No by products released
  - Fast cure at elevated temperatures
  - Translucent

**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 conveyer 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.

**Typical Product Data**

Components	Unit	RTV833A	RTV833B
Appearance		Translucent	Translucent
Viscosity 20 °C	(Pa.s)	100	110
<b>Mixed</b>	<b>Unit</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 hrs RT)</b>		<b>Method</b>	<b>Unit</b>
Tensile Strength		DIN53504	(MPa) 0.7
Elongation		DIN53504	(%) 480
Hardness		DIN 53505	Shore 00 25
Modulus @ 100 % Elongation		DIN 53504	(MPa) 0.07

*The above given values are based on material, which was produced in the pilot plant.*

**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.

**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 % by weight of Silopren LSR colour 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**

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 silicone rubber compounds, can cause cure inhibition.

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 RTV833.

**Curing**

Thin coatings of RTV833 can be applied to the substrate by dipping, knife spreading or extrusion. Thin films can be cured within 2 minutes at 150 deg. 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.

**Handling and Safety**

Material Safety Data Sheets are available upon request from Momentive performance materials. Similar information for solvents and other chemicals used with the Momentive performance materials products should be obtained from your supplier. When solvents are used, proper safety precautions must be observed.



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