

RTV 830

**2 component addition cure material**

**Product Description** RTV830 is a solvent-free, flowable - 2 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. Material has been especially developed for fabric coating.

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

**Applications** RTV830 silicone rubber compound is specially developed for coating of fabric. Typical applications include, but are not limited to, lace coating and conveyer belt coating. RTV830 can also be used for other applications where fast cure at elevated temperatures and good flow or self leveling characteristics are required.

**Typical Product Data**

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

Cured properties(24 hrs at RT)	Method	Unit	
Tensile Strength	DIN53504 S2	(MPa)	4.4
Elongation	DIN53504 S2	(%)	540
Tear Strength	ASTM-D624 B	(N/mm)	25
Hardness	DIN 53505	Shore A	26
Modulus @ 100 % Elongation	DIN 53504 S2	(MPa)	0.5
Density		(g/cm <sup>3</sup> )	1.03

**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 RTV830A and RTV830B components (in a ratio of 1:1 by weight) optionally combined with a pigment paste (like 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. 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 RTV830 can be applied to the substrate by dipping, spreading, knifing 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 behaviour of 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.

- 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.
- Storage and Warranty Period** The warranted shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 4 months when stored in the original unopened containers below 27° C.
- Availability** 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.



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