



RTV834

2-part tacky silicone rubber

PRODUCT DESCRIPTION

RTV834 is a solvent-free, flowable - 2 component tacky RTV Silicone rubber. After mixing the RTV834A and RTV834B 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

RTV834 tacky silicone compound has been specially developed as a tacky coating for fabric requiring repositionable adhesive properties. Typical applications include, but are not limited to, lace coating, clothes and conveyer belt coating. RTV834 can also be used for other applications where fast cure at elevated temperatures with a tacky surface and good flow or self-levelling characteristics are required.

TYPICAL PRODUCT DATA

Uncured Properties			
		A-part	B-part
Color		Translucent	Translucent
Viscosity @ 20°C	Pa.s	130	90
Mix ratio by weight		1	1

Typical catalysed properties		
Pot life at 23 °C	minutes	100
Density	g/cm ³	1.05
Hardness	Shore 00	40
Tensile strength	MPa	2
Modulus 100%	MPa	0.15
Elongation	%	500
<i>Properties were obtained on 2 mm thick ASTM sheets. the sheets were press-cured for 10 minutes at 175 °C</i>		



SPECIFICATIONS Typical product data values should not be used as specification. Assistance and specifications are available by contacting Momentive Performance Materials' Technical Service RTV.

**INSTRUCION
FOR USE**

Mixing:

Select a mixing container 4-5 times larger than the total volume of material to be mixed. Weigh out the RTV834A and RTV834B 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:

RTV834 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 RTV834.

Curing:

Thin coatings of RTV834 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 RTV834 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 RTV834 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.



- CONTAINERS** Material is available in 40 kg pail kits and in 400 kg drum kits.
- 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 43 ° C.
- 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.
- PRODUCT SAFETY** When considering the use of any Momentive Performance Materials product in a particular application, you should review our latest Material Safety Data Sheets and undertake appropriate testing to ensure that your intended use can be accomplished safely. For Material Safety Data Sheets and other product safety information, contact the Momentive Performance Materials sales office nearest you. Before handling any of the products mentioned in the text, please obtain available product safety information and take necessary steps to ensure safety of use.



PRINCIPAL LOCATIONS – Regional Information

North America	World Headquarters 187 Danbury Road Wilton, CT 06897, USA	T 800.295.2392	F 607.754.7517
Latin America	Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700, Brazil	T +55.11.4534.9650	F +55.11.4534.9660
Europe, Middle East, Africa and India	D-51368 Leverkusen Germany	T 00.800.4321.1000 T +31.164.293.276	F +31.164.241.750
Pacific	Akasaka Park Building - 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan	T +81.3.5544.3100	F +81.3.5544.3101

CUSTOMER SERVICE CENTERS

North America	Charleston, WV 25314, USA E cs-na.silicones@momentive.com		
	<ul style="list-style-type: none"> Specialty Fluids UA, Silanes, Resins, and Specialties RTV Products-Elastomers Sealants and Adhesives & Construction 	T 800.523.5862 T 800.334.4674 T 800.332.3390 T 877.943.7325	F 304.746.1654 F 304.746.1623 F 304.746.1623 F 304.746.1654
Latin America	E cs-la.silicones@momentive.com		
	<ul style="list-style-type: none"> Argentina & Chile Brazil Mexico & Central America Venezuela, Ecuador, Peru, Colombia, & Caribbean 	T +54.11.4862.9544 T +55.11.4534.9650 T +52.55.5899.5135 T +58.212.285.2149	F +54.11.4862.9544 F +55.11.4534.9660 F +52.55.5899.5138 F +58.212.285.2149
Europe, Middle East, Africa and India	E cs-eur.silicones@momentive.com	T 00.800.4321.1000 T +31.164.293.276	F +31.164.241750
Pacific	E cs-ap.silicones@momentive.com		
	<ul style="list-style-type: none"> Japan China Korea Singapore 	E cs-jp.silicones@momentive.com T +81.276.20.6182 T +86.21.5050.4666 (ext. 1523) T +82.2.6201.4600 T +65.6220.7022	
Worldwide Hotline	Worldwide Web www.momentive.com	T 800.295.2392 T +607.786.8131	F +607.786.8309

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