

# NOVAGARD® SILICONES

# RTV 800-250 Specification Data

## DESCRIPTION

RTV 800-250 is a dual cure product designed for spray or dipped coating of PCB's and other electronic parts. This non-corrosive, single-component silicone coating will cure to a solid coating upon exposure to either an ultra-violet light source, or to atmospheric moisture. RTV 800-250 is a self-leveling liquid that is formulated for use as an industrial coating.

## UV APPLICATION

All laboratory experiments were conducted using a standard ultra-violet, mercury vapor lamp operating at 125 and 300 WPI. To achieve a tack free surface requires 0.30 seconds exposure at 500 mW/cm<sup>2</sup>, or 0.60 seconds at 245 mW/cm<sup>2</sup>. As with any UV curing system, longer exposure times are required for lower intensity lamp conditions.

## MOISTURE CURE

As with any single-component moisture-cured material, worklife and cure times of RTV 800-250 are dependent on the environmental conditions such as temperature, humidity and film thickness. Adhesion should be checked on small samples prior to full-scale production.

## AVAILABILITY

RTV 800-250 is available in 5 gallon, straight-sided pails or in a 5 gallon dispensing bag.

## STORAGE

RTV 800-250 may be stored in the original unopened containers

at, or below, 80° F (25°C) for up to six months.

## PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Hazy fluid
Viscosity (LV)	Brookfield #2 @ 20 rpm	600-800 cps
Skin Over Time (H <sub>2</sub> O exposure)	20 mils @ 50%RH /77F	60 minutes minimum
Through Cure (H <sub>2</sub> O exposure)	20 mils@ 50%RH/77F	4 hours
UV Cure (Hg lamp)	20 mils-300 mW/cm <sup>2</sup>	< 1 second

## PRECAUTIONS

Consult and obey all applicable local, state and federal regulations for disposal of solvent and silicone waste. For additional information consult product M.S.D.S.

Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine or peroxides. Not recommended for surfaces that are to be painted.

## ADDITIONAL INFORMATION

Novagard believes that the information provided is a true and accurate description of the typical characteristics of the aforementioned product; however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy and safety.

## TYPICAL PROPERTIES\*

Physical Property	Test Method	Typical Value
Specific Gravity		0.98 – 1.05
Tensile Strength	ASTM D412	50 psi maximum
Elongation	ASTM D412	25% maximum
Shore Hardness	ASTM D 2240	15 ± 5
Adhesion	ASTM D 903	
Glass		<5 pli
Aluminum		< 5 pli
FR-4 board		1-3 pli.

\*The values outlined reflect testing that was conducted on laboratory prepared specimens, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information.

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