

Novagard® 800 Series 800-260 UV Cure Conformal Coating Specification Data



DESCRIPTION

Novagard 800 Series 800-260 is a unique UV/dual cure silicone conformal coating for application on printed circuit boards.

FEATURES & BENEFITS

- Exceptionally fast UV cure
- Single component
- Controlled rheology
- Minimal oxygen inhibition
- Room temperature curing
- Solvent-free formulation
- UL 746E Listed
- UV tracer for ease of inspection

APPLICATION

To preserve the UL rating of this conformal coating, the application of Novagard 800 Series 800-260 must be strictly controlled. Application details should be reviewed with a Novagard representative and matched to the UL listing.

UV CURE CONDITIONS

All laboratory experiments were conducted using a mercury vapor "H" bulb. A tack-free surface requires 0.30 seconds exposure at 500 mW/cm² (UVA) or 0.60 seconds at 250 mW/cm² (UVA). As with any UV curing system, longer exposure times are required for lower intensity lamp conditions.

AVAILABILITY

Novagard 800 Series 800-260 is available in 10.3 ounce cartridges, 5 gallon pails, and 55 gallon drums.

STORAGE

Novagard 800 Series 800-260 may be stored refrigerated in the original, unopened container in the range of 4-8°C (40 - 48°F) for up to six (6) months.

LIMITATIONS

Not recommended for surfaces that are to be painted.

PRECAUTIONS

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

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.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Clear Fluid
Viscosity	Brookfield RV #5 @ 20 rpm	1,800 – 4,000 cPs
Skin Time (H ₂ O)	1/8" @ 50% RH & 77°F	60 minutes minimum

TYPICAL CURED PROPERTIES*

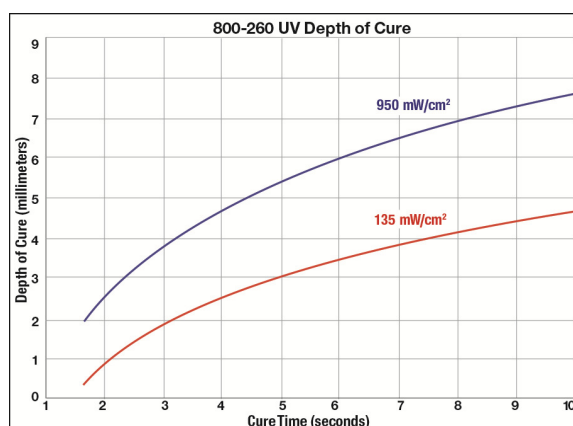
Physical Property	Test Method	Typical Value
Specific Gravity		0.98 – 1.05
Tensile Strength	ASTM D412	50 psi minimum
Elongation	ASTM D412	250 – 450%
Shore A	ASTM D2240	10 – 25
Solids Content		>98%

ELECTRICAL/THERMAL PROPERTIES*

Physical Property	Test Method	Typical Value
Dielectric Strength	ASTM D149	424 v/mil
Dielectric Constant	ASTM D150	3.35 @ 100 Hz
Dissipation Factor	ASTM D150	0.0034 @ 100 Hz
Volume Resistivity	ASTM D257	4.58 x 10 ¹³ Ω-cm
Coefficient of Thermal Expansion		3 x 10 ⁻⁴ /°C
Operating Temperature		-40°C to 200°C

UL 746E Listed	QMJU2	File Number E345993
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* The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. Results are after UV cure.



Product was UV cured using a F300S/F300SQ Fusion UV System equipped with a standard "H" bulb.