

Novagard® 800 Series 800-265 UV Cure Conformal Coating Specification Data



DESCRIPTION

Novagard 800 Series 800-265 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
- UV tracer for ease of inspection

UV CURE CONDITIONS

All laboratory testing is conducted using a medium pressure Hg arc lamp (H-bulb) operating between 500 mW/cm² and 1000 mW/cm² (UVA). Exposure times will vary depending upon application thickness and lamp intensity. Generally, between 0.5 and 10 seconds is sufficient time to affect full cure.

AVAILABILITY

Novagard 800 Series 800-265 is available in 10.3 ounce cartridges, 1 quart metal cans, 5 gallon pails, and 55 gallon drums.

STORAGE

Novagard 800 Series 800-265 may be stored in the original, unopened container for up to six (6) months from the date of manufacture.

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.

Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine, or peroxides.

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 #3 @ 20 rpm	2,000 – 2,500 cPs
Skin Time (H ₂ O)	1/8" @ 50% RH & 77°F	60 minutes minimum

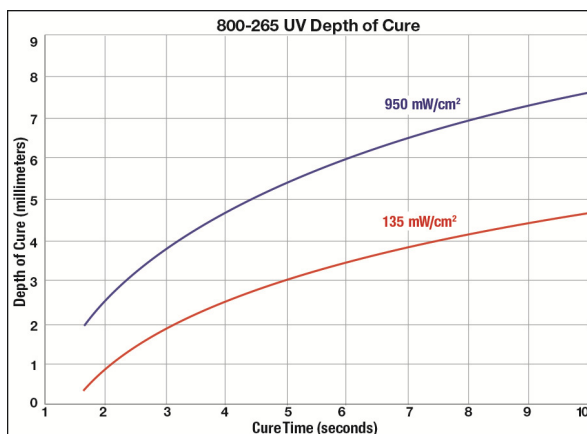
TYPICAL CURED PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		0.960 – 1.000
Tensile Strength	ASTM D412	50 psi minimum
Elongation	ASTM D412	200 – 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		300 x 10 ⁻⁶ /°C
Operating Temperature		-40°C to 200°C

* 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.