

# NEXUS UV700

## Technical Data Sheet

Nexus UV700 exhibits good surface wetting and adhesion to glass, metals, and a wide variety of plastic based substrates. Nexus UV700 can be cured in 4-6 seconds when exposed to medium intensity UV radiation in the 300-400 nm range. This product requires direct UV exposure during cure. Because of the variability of different UV light sources it is suggested that the user test and specify UV intensity and exposure time. Low intensity UV light sources (200 mw/cm<sup>2</sup>) may require as much as a 10 second exposure time.

APPLICATIONS	FEATURES	SUBSTRATES
<ul style="list-style-type: none"> <li>• BONDING</li> </ul>	<ul style="list-style-type: none"> <li>• MOISTURE RESISTANCE</li> </ul>	<ul style="list-style-type: none"> <li>• METALS</li> </ul>
<ul style="list-style-type: none"> <li>• SEALING</li> </ul>	<ul style="list-style-type: none"> <li>• FAST UV CURE</li> </ul>	<ul style="list-style-type: none"> <li>• GLASS</li> </ul>
	<ul style="list-style-type: none"> <li>• HIGH FLEXIBILITY</li> </ul>	

### Typical Properties of Uncured Material\*

Chemical Class	Acrylated Urethane
Color	Clear
Viscosity @25°C, Spn5 @10RPM, cps	6,000 – 9,500
Specific Gravity	1.09
Cleanup Solvent	Isopropyl alcohol

### UV Light Cure Guidelines\*

Recommended Curing Spectrum	UVA
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### Typical Properties of Cured Material\*

Durometer, Shore D	94
Operating Temperature Range, °C	-40 to 120

**\*All properties given are typical values and are not intended for use in preparing specifications.**

Heat is also an important component with UV cure, and different systems produce different heat outputs. Cure testing was done in an open system and results will vary with application. Consequently, Resin Designs recommends that curing is discussed with our Technical staff to ensure the exact customer process being used will meet the coating cure requirements. After UV exposure and return to room temperature the coating should be tack free.

Nexus UV700 was designed to be cured using a microwave UV oven. Arc and LED systems may cure Nexus UV700; however, care must be taken during the equipment selection process to ensure minimum dosage and irradiance values obtained will properly cure the coating. Because of the variations possible in curing equipment type and configuration, it is strongly recommended that you contact Resin Designs Technical Support to discuss your equipment and process in detail.

### Storage

Keep stored between 8°C and 28°C in tightly closed, light-blocking containers away from direct sunlight. Keep from freezing. Please refer to product labeling for shelf-life information. Consult SDS for safe handling recommendations.

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