

PRODUCT SPECIFICATION

900-W

UV Adhesive

Description:

Formulated for automotive glass restoration, this single-component, clear liquid UV resin provides rapid, reliable windscreen repairs without requiring heat curing. The 100% solids, low-viscosity formulation penetrates deeply into complex fractures – including star breaks and bull's-eye cracks – to restore structural integrity and optical transparency.

Upon exposure to UV light in the 350–380 nm wavelength spectrum, the resin cures rapidly with low volumetric shrinkage and superior adhesion to glass, blending seamlessly for virtually invisible repairs. Highly resistant to extreme temperatures, thermal cycling, and high humidity, it delivers long-lasting durability for professional windscreen repair systems.

Typical Properties of Cured/Uncured Material:

Liquid State		Cured State	
Base	Urethane Methacrylate	Tensile Strength, ASTM D882 (psi)	54500
Colour	Clear	Elongation @ break (%)	176
Specific Gravity (25°C)	1.1	Hardness, ASTM D2240 Shore D	75
Refraction Index (25°C)	1.53	Tg, ASTM D3418-82 (°C)	50
Viscosity (cP)	800 - 1000	Water Absorption, ASTM D570 (%)	4.5

UV Curing System:

Lamp Type	5" x 5" Flood	3/16" Spot	1" x 6" Focused
Max. Lamp Intensity @ 365 nm	300 mW/cm ²	4000 mW/cm ²	8000 mW/cm ²
Adhesive Absorption Range (nm)	300 - 500	300 - 500	300 - 500
Cure Speed (Sec)			
Glass to Glass Bonding	10	10	<8
Surface Cure Speed	15	15	<8

Cure Conditions:

Cure can be achieved using both low and high-intensity UV light sources. Under a low UV intensity of 30 mW/cm, highly transmissive substrates with joint gaps under 0.25 mm (0.010") cure in 5 seconds, while gaps of 1.75 mm to 2.25 mm (0.070" to 0.090") cure within 10 to 20 seconds. Under a high UV intensity of 100 mW/cm, highly transmissive substrates with gaps under 0.25 mm (0.010") cure in 2 seconds, while larger gaps of 2.5 mm to 5.0 mm (0.100" to 0.200") achieve full cure within 10 to 20 seconds.

Directions For Use:

This adhesive is UV sensitive. Exposure to daylight, UV light and artificial lighting should be kept to a minimum during storage and handling. Adhesive product should be dispensed from applicators with black feed lines. For best performance bond surfaces should be clean and free from grease.

UV cure rate is depends on lamp intensity, distance from light source, depth of cure needed or bond line gap and light transmittance of the substrate through which the radiation must pass.

Recommended intensity for cure in an adhesive application are 40-mW/cm² minimums with an exposure time of 5-6 times the fixture time at this same intensity. For tack free surface cure, as necessary in coating, potting or tacking applications, higher intensity UV is required.

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