



**TDS**

**MXCUR<sup>®</sup> 351**

## PRODUCT SPECIFICATION

# MXCUR<sup>®</sup>351

### Description:

**MXCUR<sup>®</sup> 351** is a low to medium viscosity, fast curing, single component Urethane Methacrylate adhesive. **MXCUR<sup>®</sup> 351** is specifically formulated for glass to glass, glass to metal bonding. **MXCUR<sup>®</sup> 351** cures rapidly when exposed to ultra violet radiation specifically in the UVA region. Strength retention is excellent when exposed to water and humidity

### Typical Properties of Cured/Uncured Material:

Uncured State Physical Properties		Physical Properties of Cured Materials		
Base	Acrylic	Full strength achieved after correct UV exposure.		
Colour	Transparent liquid	Coefficient of thermal expansion, ASTM D696, 1°K:	100 x 10 <sup>-6</sup>	
Chemical Form	Urethane Methacrylate	Coefficient of thermal conductivity, ASTM C177, W.mK:	0.1	
Cure	UVA/Visible light	Electrical Properties		
Secondary Cure	None	Volume Resistivity (ASTM D257)Ω.cm	2 x 10 <sup>15</sup>	
Fluorescence	No	Dielectric strength (ASTM D149) kV/mm	50	
Components	Single requires no mixing	Dielectric constant & loss		
Viscosity	Medium	(ASTM D150, DIN 53483, IEC 250, BC 4542)	Constant	Loss
Strength	High	100Hz	3.4	0.03
Application	Glass to Glass, Glass to Metal	1000Hz	3.4	0.03
Specific Gravity @ 25°C	1.10	10000Hz	3.4	0.03
Viscosity @ 25°C	1200 – 2000 mPas	Dielectric Constant / Dissipation Factor, IEC 60250		
Flash Point	See MSDS	100-Hz	4.56 / 0.05	
UV Intensity 365nm (20mWcm <sup>2</sup> )		1-kHz	4.41 / 0.02	
Cure Speed (Seconds to achieve handling strength)	3 secs	1-MHz	4.02 / 0.03	
Depth of cure at same time	1.5mm	Performance of Cured Material		
Depth of cure (x4 exp. Time)	2.5mm	Tensile strength, steel to glass, N/mm <sup>2</sup> (modified ASTM/DIN/modified DIN 53288) UV 365nm/100mW/cm <sup>2</sup> 100 seconds	N/mm <sup>2</sup>	
(5mWcm <sup>2</sup> ) Fixture Time	10 secs			

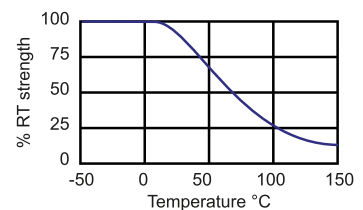
## Environmental Resistance

### Hot Strength

**Strength test procedure:** ASTM D2095. DIN 53288

**Substrate:** Grit blasted mild steel pin to glass.

**Cure procedure:** 1 week 22°C after exposure for 10 seconds at 100mW/cm<sup>2</sup> 365 nm

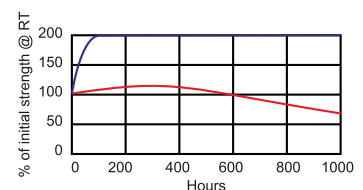


### Heat Aging

**Strength test procedure:** ASTM D2095

**Substrate:** Grit blasted mild steel pin to glass.

**Cure procedure:** 1 week 22°C after exposure for 10 seconds under 365nm



## PRODUCT SPECIFICATION

# MXCUR<sup>®</sup> 350

### Chemical/Solvent Resistance

**Strength test procedure:** ASTM D2095

**Substrate:** Grit blasted mild steel pin to glass.

**Cure procedure:** 1 week 22°C after exposure for 10 seconds at 100mW/cm<sup>2</sup> 365 nm

Environment	°C	% of initial strength		
		100 hrs	500 hrs	1000 hrs
90% R.H.:	40	50	35	25
Petrol	22	100	100	85
1.1.1. Trichloroethane	22	100	100	100
Freon TA	22	100	100	100
Industrial Methylated Spirit	22	100	100	100

### General Information:

This product is not recommended for use in pure oxygen and/or oxygen rich systems and not be used with chlorine or Other strong oxidising materials. For information on the safe handling of this product, consult the **Material Safety Data Sheet, (MSDS)**. Where washing systems are used to clean the surfaces before bonding, it is important to check the Compatibility of the washing solutions can affect the cure and performance of the adhesive.

### Handling & Storage

**Storage:** Keep products in the unopened container in a cool dry location. The product is best when stored at 8 to 21°C. temperatures less than 2°C can adversely affect product properties. Do not freeze. Keep container tightly closed until ready for use. For long term storage keep in refrigeration at 5°C unless otherwise labelled.

**Handling:** Material removed from containers may be contaminated during use. Do not pour back any product to the original Container. Misuse of product will void all warranties.

### Precaution

1. Use with proper ventilation. Avoid contact with skin and eyes.
2. If contact with skin occurs, rinse with warm water or dissolve with appropriate debonder. Do not try to remove forcibly.
3. If adhesive gets into your eye, keep eye open and rinse thoroughly. Seek medical attention immediately.
4. Keep well out of reach of children.
5. Keep adhesive in a cool dry place 8°C to 21°C.

Revision date: 01/2025 - Revision: 04

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**MXCUR<sup>®</sup>351**

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