



# **PRODUCT SPECIFICATION**

# **MXBON®**

Glass Glue

# **Product Description**

MXBON® Glass Glue is a low to medium viscosity, fast curing, single component Urethane methacrylate adhesive. MXBON® GLASS GLUE is specifically formulated for glass to glass, glass to metal bonding. MXBON® GLASS GLUE cures rapidly when exposed to ultra violet radiation specifically in the UVA region. Strength retention is excellent when exposed to water or humidity.

#### MXBON® Glass Glue offers the following characteristics:

ate
o mixing
ass to Metal

## **Properties of Uncured Material**

	Typical Value
Specific Gravity @ 25°C	1.10
Viscosity @ 25°C	1200 ~ 2000mPas
Flash Point	See MSDS

# **UV** Intensity

365nm (20mW/cm²)

Cure speed (seconds to achieve handling strength): 3 secs Depth of cure at same time: 1.5 mm

Depth of cure (x4 exp. Time): 2.5 mm

Standard dry surface time: Not recommended

Fixture time: Direct Sunlight 10 secs, Bright Sunlight 30 secs approx, Cloudy

conditions 2-5 mins approx

Full cure: 8 hours in direct sunlight

# **Properties of Cured Material**

Physical properties	
Full strength achieved after correct UV exposure. Coefficient of thermal expansion, ASTMD696,1/°K:	100 x10- <sup>6</sup>
Coefficient of thermal conductivity ASTMC177,W.mK:	0.1

Ele	ectric	al pro	perti	es				
					M D257) Ω.cm	2 x 1015		
					ΓM D149) kV/mm	50		
Die	electr	ic co	nstan	t & lo	SS			
(AS	STMD	150,	DIN 5	3483	, IEC 250, BC 4542	) Constant	Loss	
100	0Hz					3.4	0.03	
100	00Hz					3.4	0.03	
100	000H	Z				3.4	0.03	

### **Packaging And Contents**

Contents of adhesive: 1x 3a 1x Aerosol Packaging: 1x Blister card 1x Blister shell

#### Performance of Cured Material

Tensile strength, steel to glass, N/mm² (Modified ASTM/DIN/modified DIN 53288) UV 365nm/100mW/cm<sup>2</sup> 100 seconds

N/mm<sup>2</sup> 6 to 15

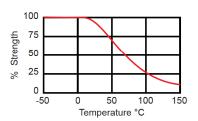
# **Environmental Resistance Hot Strength**

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



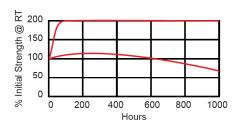
# **Heat Aging**

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 365 nm.



#### **Chemical/Solvent Resistance**

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

Solvent Temperature % Initial strength retained at						
		100hrs	500hrs	1000hrs		
90% R.H.:	40°C	50	35	25		
Petrol	22°C	100	100	85		
1.1.1.Trichloroethane	22°C	100	100	100		
Freon TA	22°C	100	100	100		
Industrial Methylated Spirit	22°C	100	100	100		

Revision date: 08/2018 - Revision: 05



**TDS MXBON** 

**Glass Glue** 



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#### **General information**

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be use 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 solution with the adhesive. In some cases these solutions can affect the cure and performance of the adhesive.

#### **Direction for use**

- Ensure surfaces are close fitting, clean and abraded with abrasive paper for improved bonding.
- Away from direct sunlight, apply a thin coat of adhesive to one surface only and position correctly. If necessary support part to be bonded until fully cured ensure that the bond line is not covered during the curing process.
- 3. Place object in direct sunlight taking care not to move the parts during the curing process. Ensure the bond-line is exposed to strong light.
- Remove excess adhesive immediately prior to curing with an acetone based nail varnish remover.
- Replace cap and return to the blister pack. Store upright in a cool dry place out of the reach of children.

#### **Precaution**

- 1. Do not apply in direct sunlight
- Use with proper ventilation. Avoid contact with skin and eyes
- If contact with skin occurs, rinse with warm water and soap.
- If adhesive gets into eye, keep eye open and rinse thoroughly. Seek medical attention immediately.
- 5. Keep well out of reach of children.

#### Storage

Keep adhesive in a cool, dry place optimal storage 8°C-28°C. is recommended unless otherwise labelled. To prevent contamination of unused material, do not return any product to its original container. For specific shelf life information, contact Cartell UK Ltd. Avoid direct sunlight.

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