



Cyberbond[®] RM 88

General Properties

Technology/Base	Dimethacrylate ester
Type of Product	Retaining compound
Curing	Anaerobic
Mechanical Properties	Semi-structural
Colour	Green
Fields of Application	Automotive Construction Industrial assembly Transportation Assembly and repair
Typical Applications	Retaining of cylindrical fitting parts
Product Benefits	Medium viscosity High strength

Typical Technical Data

General

Physical Properties		
Density	1.07 g/cm ³	
Colour (wet)	green	
Processing Guidelines and Parameters		
Shelf Life	12 months	unopened
Storage Temperature	8 °C to 20 °C	
Processing Temperature	15 °C to 35 °C	
Viscosity	400 mPa·s to 800 mPa·s	Brookfield RVT, 20 °C, 158 1/min
Gap Fill	0.05 mm to 0.15 mm	
Setting Time	20 s to 45 s	M 10 brass bolt/nut
Full Cure Time	24 h	
Maximum Thread Size	M 20	
Cured Material Characteristics		
Compressive Shear Strength	24 MPa to 44 MPa	steel pins/collars
Service Conditions		
Service Temperature	-50 °C to 150 °C	
Solvent Resistance		
Alcohol	very good	e.g. Ethanol, Methanol, Isopropanol
Ester (aliphatic)	very good	e.g. Ethylacetate
other liquids	very good	e.g. Water, Freon, Diesel Oil
other liquids	good	e.g. Ammonium Hydroxide, Bromine, Hydrobromic Acid, Lithium Hydroxid, Perchloric Acid, Potassium Hydroxide
gases	very good	e.g. Acetylene, Argon, Butane, Ethane, Nitrogen
gases	good	e.g. Ammonia, Freon Gas, Oxygen (pure and /or oxygen rich systems), Chlorine

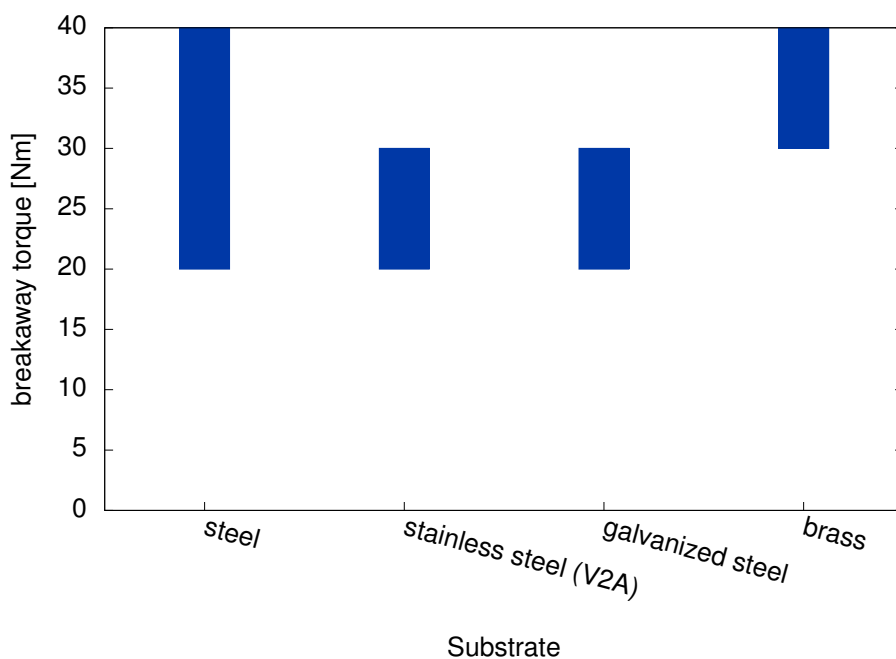


Figure 1: Breakaway Torque on Various Substrates

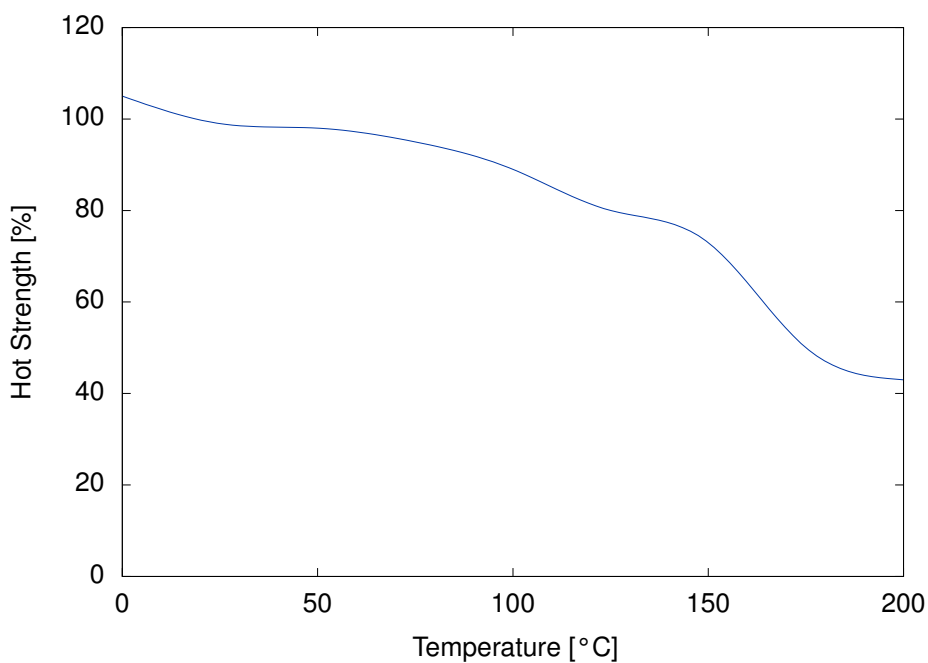


Figure 2: Hot Strength (%RT strength, tested at temperature)

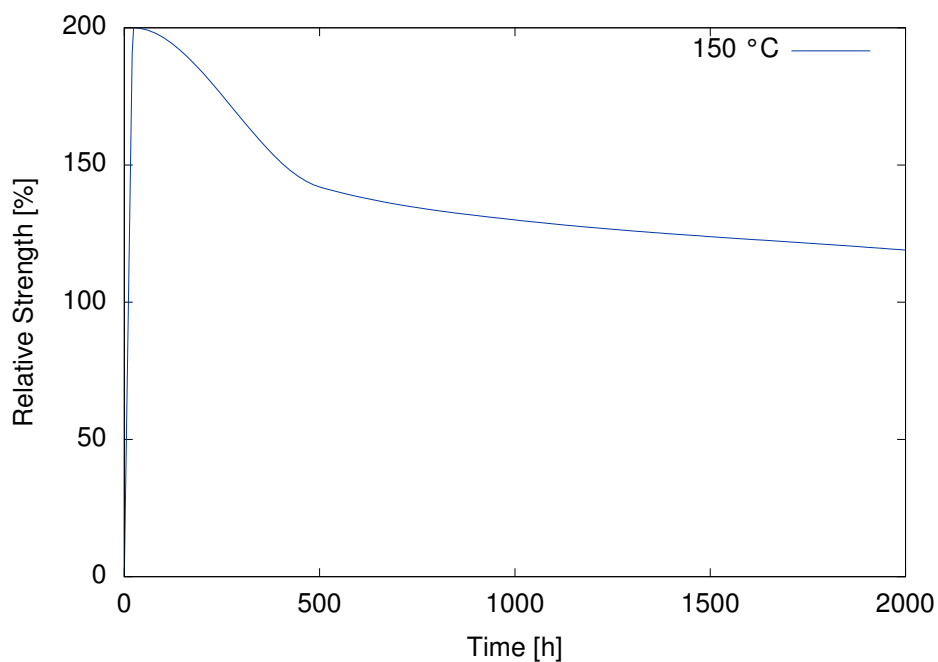


Figure 3: Heat Ageing on Steel (aged at temp. indicated and tested @ 20°C)

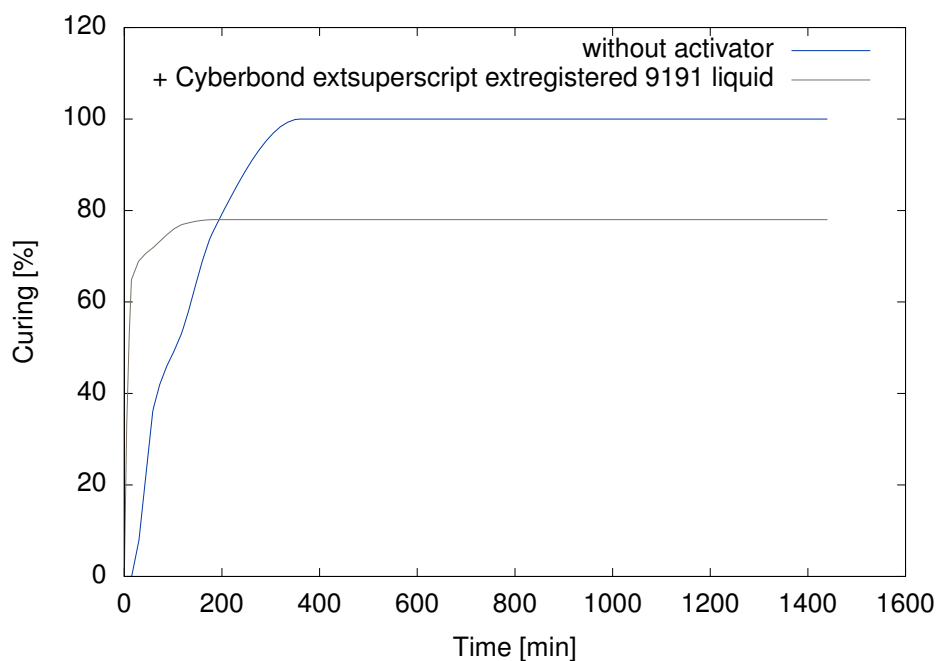


Figure 4: Time Until Full Cure

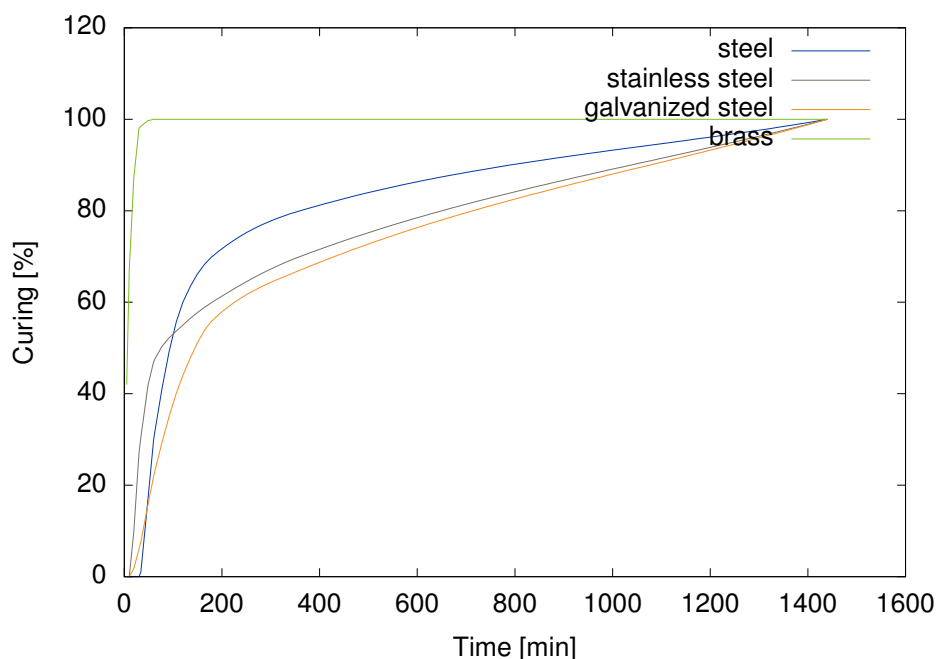


Figure 5: Time Until Full Cure

Product Properties

Processing

Suitable Substrates	Various galvanized steels Various aluminium alloys Various steel alloys Various other substrates
Surface Requirements	Dry Clean Free of grease
Surface Cleaning	Cyberbond® 9999 Cleaner Spray Cyberbond® 9999 Liquid Cleaner
Activator	Cyberbond® 9191 liquid

Certifications

Certifications and Declarations of Conformity	RoHS compliance
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Additional Information

Storage

Cyberbond® RM 88 should be used within the shelf life specified on the packaging. The storage stability applies to material stored under appropriate conditions only (original unopened containers, recommended storage temperature). This product should be stored unopened in a cool, dry place out of direct sunlight. Refer to the Technical Data section of this document for optimum storage temperatures.

Safety

Please read our Safety Data Sheet (SDS) of each product before use.

Processing

Surfaces to be bonded should be clean and dry and free of grease. Product should be applied in enough quantity to fill all engaged threads. The product performs best in thin bond gaps. Very large gaps may create gaps that will affect the cure speed and overall strength. Good contact is essential. This product is not recommended for use in pure oxygen environments and/or oxygen-rich systems and should not be

selected as a sealant for chlorine or other strong oxidizing materials. This product is not designed for plastics, particularly thermoplastics where stress cracking of the plastic could result. It is recommended to confirm compatibility of the product with all substrates prior to use.

Disposal

Please refer to the Safety Data Sheet (SDS) for disposal instructions.

Additional Programme

To support certain applications H.B. Fuller® | Cyberbond® offers a range of additional products. Refer to the product properties section of this document for suitable Activators and Cleaners.

LINOP Equipment

H.B. Fuller® | Cyberbond® offers by means of the LINOP Equipment range suitable dosing and LED based curing devices. We also refer to suitable dosing tips which help an economical use of the adhesives (also if used manually).

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