

Product Description

BYLLOC 201 is designed for the bonding of cylindrical parts particularly where disassembly is required for servicing. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. Applications include bearing retention onto housings and shafts.

BYLLOC 201 offers the following characteristics:

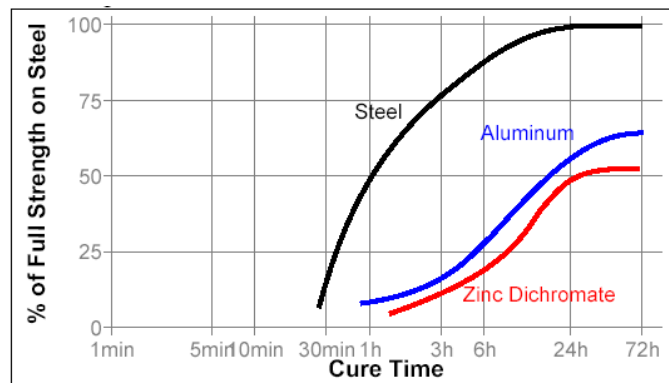
Technology	Acrylic
Appearance (uncured)	Yellow liquid
Chemical Form	Methacrylate ester
Fluorescence	Negative
Cure	Anaerobic
Secondary cure	Activator
Components	Single – requires no mixing
Viscosity	Medium
Application	Retaining

Properties of Uncured Material

	Typical Value
Specific Gravity @ 25°C	1.07
Viscosity @ 25°C	400 to 800mPas
Flash Point	See MSDS
Shear rate 277 s⁻¹	90 to 180

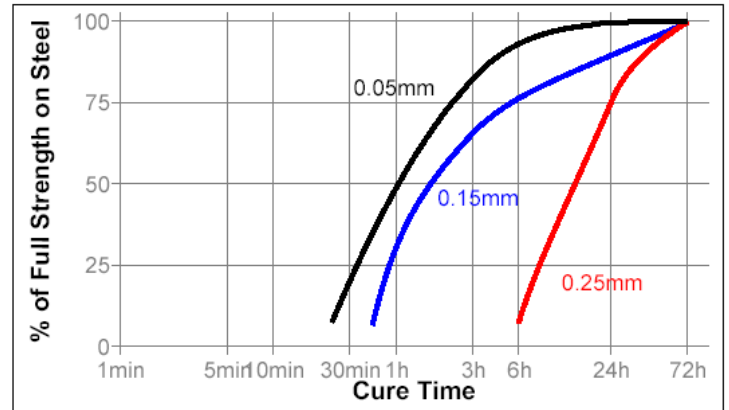
Cure speed vs. substrate

The rate of cure is dependant on substrate used. The graph below shows the shear strength developed with time on steel collars and pins compared to different materials and tested according to ISO 10123.



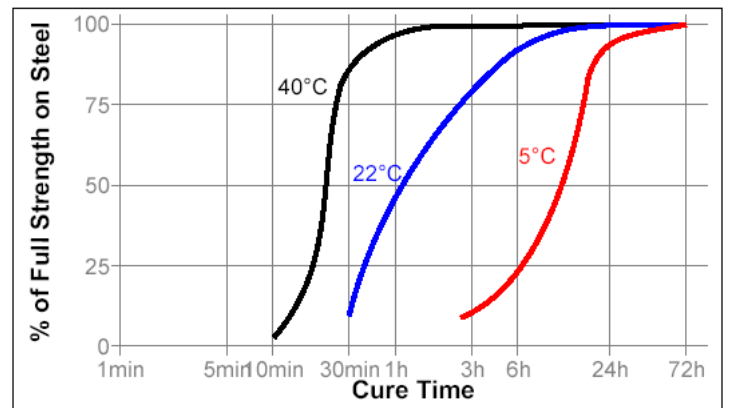
Cure Speed vs. Bond Gap

The rate of cure will depend on the bond gap. The graph below shows shear strength developed with time on steel collars and pins at different controlled gaps and tested according to ISO 10123.



Cure speed vs. temperature

The rate of cure is dependent on the ambient temperature. The rate of cure will depend on the bond gap. The graph below shows shear strength developed with time on steel collars and pins at different controlled gaps and tested according to ISO 10123.



Cure speed vs. activator

Where the cure speed is unacceptably long or large gaps are present. An activator can be applied to the surface which will improve cure speed.

Typical performance of cured material

Physical Properties	Typical Value
Coefficient of Thermal Expansion	80×10^{-6}
Coefficient of Thermal Conductivity	0.10

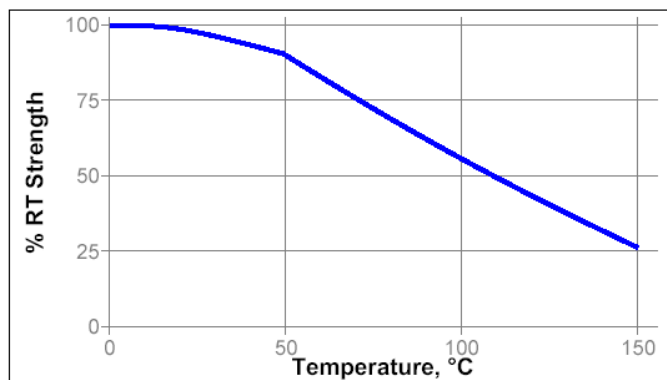
(After 24 hr at 20-25°C)

	Typical Value
Compressive shear strength steel collars & pins ISO 10123	N/mm ² ≥ 6.50

Typical heat resistance

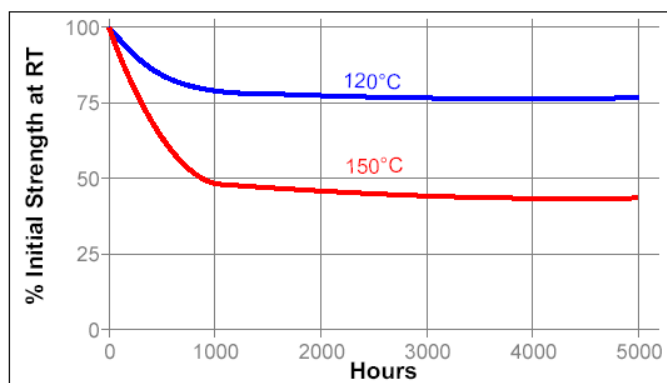
Hot Strength

Cured for 1 week @ 22°C



Heat Aging

Aged at temperature indicated and tested @ 22°C.



General information

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

Directions for use

1. For optimum performance surfaces should be clean and free of grease (internal and external).
2. If the material is an inactive metal consider using activator.
3. For Slip Fitted Assemblies: Apply the product to the leading edge of the pin and inside the collar.
4. For shrink fitted assemblies: the adhesive should be coated onto the pin, the collar will then need to be heated to create sufficient clearance for free assembly.

5. For press fitted assemblies, apply adhesive thoroughly to both bond surfaces and assemble at high press on rates.

For disassembly

Apply localized heat to the assembly disassemble while hot.

For cleanup

To remove cured product use a combination of solvent and abrasion such as a wire brush. .

Precaution

1. Use with proper ventilation. Avoid contact with skin and eyes.
2. If contact with skin occurs, rinse with warm water or dissolve gradually with appropriate debonder.
3. Do not try to remove forcibly.
4. 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-21°C, is recommended unless otherwise labelled. To prevent contamination of unused material, do not return any product to its original container.

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