





TECHNICAL DATA SHEET FOR LOCKFAST R01

PRODUCT DESCRIPTION

Lockfast R01 is designed for the bonding of cylindrical fitting parts. The product is a single component anaerobic, acrylic based product. The product cures when confined in the absence of air between close fitting metal surfaces and prevents leakage and loosening from vibration and shock.

LOCKFAST RO1 CHARACHTERISTICS

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Technology	Acrylic			
Appearance (uncured)	Green liquid			
Chemical Form	Dimethacrylate ester			
Fluorescence	Positive under UV			
Cure	Anaerobic			
Secondary cure	Activator			
Components	Single – requires no mixing			
Viscosity	Low			
Strength	High			
Application	Retaining			

Lockfast R01is particularly suitable for uses including the filling of porosity in welds, castings and powdered metal parts.

PROPERTIES OF UNCURED MATERIAL

	Typical Value		
Specific Gravity @ 25°C	1.10		
Viscosity @ 25°C	100 – 150 mPas		
Flash Point	See MSDS		

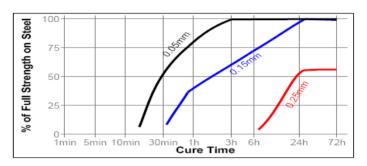
CURE SPEED VS. SUBSTRATE

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



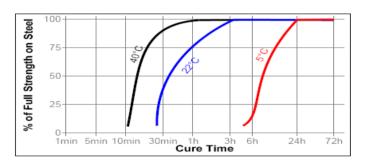
CURE VS. BOND CAP

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 graph below shows the breakaway strength developed with time at different temperatures on steel collars and pins 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

Typical Value

Operating Temp °C

(After 24 hr at 20-25°C)

	Typical Value				
Breakaway Torque M10 black oxide steel bolts & nuts ISO 10964	15 to 40Nm				
Prevail Torque M10 black oxide steel	25 to 50Nm				
bolts & nuts ISO 10964					





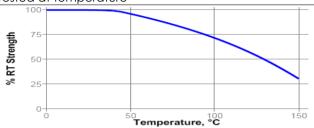


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TYPICAL HEAT RESISTANCE

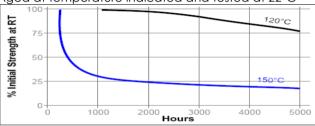
HOT STRENGTH





HEAT AGING

Aged at temperature indicated and tested at 22°C



CHEMICAL / SOLVENT RESISTANCE

Aged under conditions indicated and tested @ 22 °C.

		% of initial strength				
Environment	°C	100 h	500 h	1000 h	5000 h	
Motor oil						
(MIL-L-	125	85	85	50	50	
46152)						
Leaded	22	90	90	90	90	
Petrol		70	70	70	70	
Brake Fluid	22	90	90	85	85	
Water/Glycol 50/50	87	90	90	90	90	
Acetone	22	85	85	85	85	
Ethanol	22	80	80	80	80	

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. 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.
- If the material is an inactive metal consider using activator.
- 3. Shake the product thoroughly before use.
- 4. Apply several drops to the bolt & nut.
- 5. Assemble and tighten as required.
- 6. To prevent the clogging of the nozzle, do not let the tip touch metal surface during application.

FOR DISASSEMBLY

- 1. Remove with standard hand tools.
- 2. In circumstances where hand tools do not work, use localized heat to bolt or nut, disassemble while hot.

FOR CLEANUP

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

PRECAUTION

- 1. Use 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. For specific shelf life information, contact Cyanotec Ltd.

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