



**H42** 

# **TECHNICAL DATA SHEET FOR LOCKFAST H42**

#### PRODUCT DESCRIPTION

**Lockfast H42** is designed for the sealing and locking of metal fittings and pipes. The product is a single component anaerobic, medium strength thixotropic, 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 H42 offers the following characteristics:

Lockidsi 11-2 offers the following characteristics:					
Acrylic					
Brown liquid					
Methacrylate ester					
Anaerobic					
Activator					
Single – requires no mixing					
Thixotropic, medium					
Medium					
Thread sealing					
Acrylic					

#### **PROPERTIES OF UNCURED MATERIAL**

Typi	ical	Va	lue

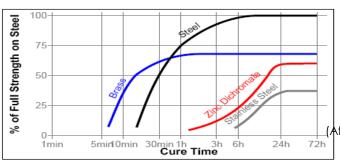
Specific Gravity @ 25°C 1.06

**Viscosity @ 25°C** 1200 - 2750 mPas

Flash Point See MSDS
Seal to operating pressure 4 hours

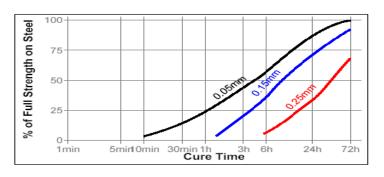
### **CURE SPEED VS. SUBSTRATE**

The rate of cure is dependent on substrate used. The graph below shows the breakaway strength developed with time on M10 steel bolts and nuts compared to different materials and tested according to ISO 10964.



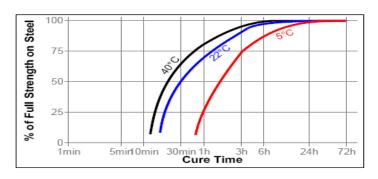
#### **CURE VS. BOND CAP**

The rate of cure will depend on the bond gap. Threaded fasteners gap size is dependent on thread type and quality. 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 M10 steel bolts and nuts and tested according to ISO 10964.



### **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

-54°C - 150°C

After (24 hr at 20-25°C) on M10 steel nuts & bolts)

Adhesive Properties	Typical Value
Breakaway Torque M10 steel bolts & nuts ISO 10964	15Nm
Prevail Torque M10 steel bolts & nuts ISO 10964	9Nm





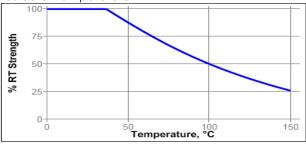
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#### TYPICAL HEAT RESISTANCE

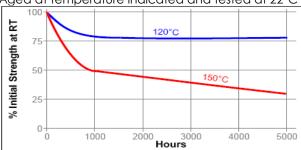
#### **HOT STRENGTH**

Tested at temperature



### **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	
Motor oil (MIL-L- 46152)	125	100	100	100	
Unleaded Petrol	22	100	100	95	
Brake fluid	22	100	100	95	

### **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**

- 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

- 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.
- 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  $8^{\circ}\text{C-}21^{\circ}\text{C}$ , 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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