



TECHNICAL DATA SHEET

Stud Lock - 7g

Date: 12/04/2017
 Product Code: 654
 Barcode: 6001296006541



Description

Wynn's Stud Lock is designed for the sealing and locking of threaded fasteners. The product is a single component anaerobic, medium to high strength thixotropic, acrylic based thread locker. The product cures when confined in the absence of air between close fitting metal surfaces and prevents leakage and loosening from vibration and shock.

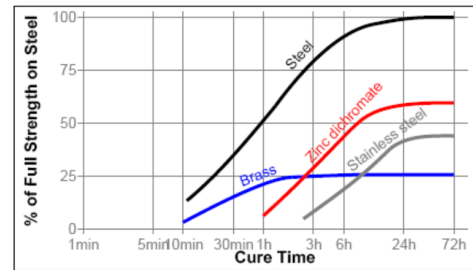
Wynn's Stud Lock offers the following features:

Technology	Acrylic
Appearance (Uncured)	Red
Chemical Form	Dimethacrylate ester
Cure	Anaerobic
Secondary Cure	Activator
Components	Single
Fluorescence	Positive under UV
Strength	High
Application	Thread locking
Viscosity at 25°C	400 to 600 cPs
Specific Gravity	1.10
Fixture Time	15 mins
Flash Point	See MSDS

Wynn's Stud Lock is particularly suitable for uses including heavy duty applications, such as nuts onto studs in pump housings and studs into motor housings. Used also on other fasteners where maximum strength is required.

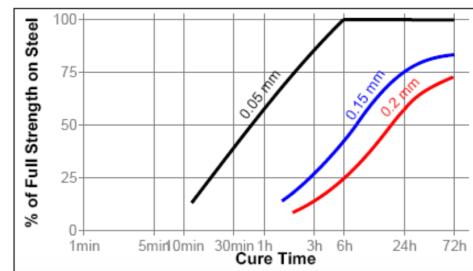
Cure Speed vs. Substrate

The rate of cure is dependant 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 Speed vs. Bond Gap

The rate of cure will depend on the bond gap. Threaded fasteners gap size is depend 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.



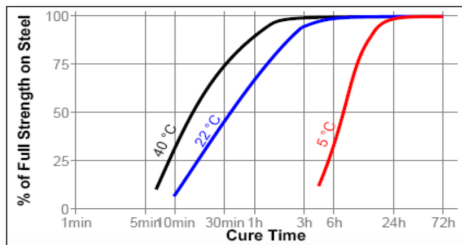


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Cure Speed vs. Temperature

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.

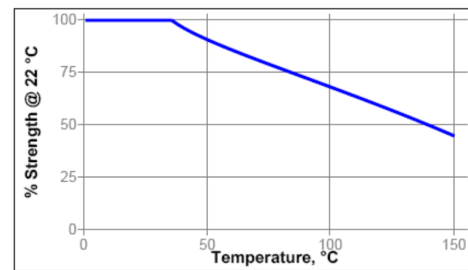
Typical Performance of Cured Material

	Typical Value
Operating Temperature	-54°C to 150°C
Breakaway Torque M10 steel bolts & nuts after 24 hrs at 20°C to 25°C ISO 10964	26 Nm
Prevail Torque M10 steel bolts & nuts ISO 10964	36 Nm

Typical Heat Resistance

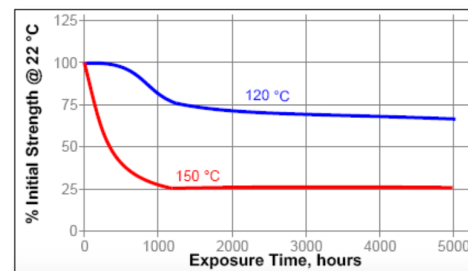
Hot Strength

Tested at temperature



Heat Ageing

Aged at temperature indicated. Tested at 22°C.



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.

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





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some cases these solutions can affect the cure and performance of the adhesive. This product is not recommended for use on certain plastics.

Direction for use

Surface Preparation

For optimum performance surfaces should be clean and free of grease. If the material is an inactive metal consider using activator.

Application

Shake the product thoroughly before use. Apply several drops to the bolt & nut. Assemble and tighten as required. To prevent clogging of the nozzle, do not let the tip touch metal surface during application.

Disassembly

Remove the standard hand tools. In circumstances where hand tools do not work, use localised heat to bolt or nut, disassemble while hot.

Cleanup

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

Precaution

Use with proper ventilation. Avoid contact with skin and eyes. If contact with skin occurs, rinse with warm water or dissolve gradually with appropriate de-bonder. Do not try to remove forcibly. If adhesive gets into eye, keep eye open and rinse thoroughly. Seek medical attention immediately. Keep away from children.

Handling & Storage Recommendation

Keep product in a cool and dry storage place at temperatures between 8°C and 21°C. Allow product to reach room temperature before opening bottle to avoid condensation which may reduce shelf life. Furthermore, to prevent contamination of any unused material, do not return any product to its original container.

