Revised March 2003



9411 Corsair Road Frankfort, IL 60423 1-800-552-0299 Phone 1-815-464-5650 Fax

**EMERGENCY PHONE 1-800-255-3924** 

# TECHNICAL DATA SHEETS 43TL THREADLOCKER

# **Description:**

**ADVANCED PERFORMANCE SERIES THREADLOCKER 43TL** is a medium strength anaerobic adhesive for thread locking of nuts and bolts of all types that require to be dismantled. Suitable to be used on oily surfaces. Highly resistant to heat, corrosion, vibrations, water, gas, oils, hydrocarbons and many chemicals. Also to be used as a thread sealant in the temperature range -55° +150°C.

## **Physical Properties:**

PROPERTIES OF UNCURED PRODUCT (typical value)

Composition Dimethacrylate ester

Appearance Opaque Blue Fluorescent Liquid

Specific Gravity (77°F/25°C g/ml) :1.08

Viscosity, Brookfield (77°F/25°C mPa.s)

Spindle 3 - 20 rpm: 5000 mPa.s
Flash Point, TCC >93°C
Shelf life at 20°C 1 year
Storage temperature 8° - 28°C

#### **HEAT CURE**

Stainless Steel

10 hrs

Typical heat cure conditions consist of heating and maintaining bondline at a temperature of 40°C and after one hour more than 85% of strength on steel is achieved.

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

Steel

20 min

% Full strength

25

50	28 min	20 min	
100	3-72 hrs	1-72 hrs	
		CURE SPEED VS	. JOINT GAP
% Full strength		Gap 0,05mm	Gap 0,25ı
25		15 min	2 hrs

% Full strength	Gap 0,05mm	Gap 0,25mm
25	15 min	2 hrs
50	25 min	4 hrs
100	6_ 72 hrs	

**Brass** 

15 min

#### **CURE SPEED VS. TEMPERATURE**

% Full strength	Temperature	
•	. 5°C	40°C
25	1 hrs	10 min
50	2 hrs	20 min
100	24 – 72 hrs	2 - 72 hrs



# TECHNICAL DATA SHEETS TORQUE 43TL



## PROPERTIES OF CURED PRODUCT (typical value)

#### Functional strength at 24 hrs 20° on steel

#### **ENVIRONMENTAL RESISTANCE**

### Hot strength at temperature

est.Temp.°C	% retained strength
25°	95%
50°	80%
100°	50%
150°	40%

#### Heat aging

Samples aged 1000 hours at indicated temperature and tested at room temperature.

Test temp. °C % retained strength 100° 90% 120° 80% 150° 35%

#### **Chemical / Solvent Resistance**

Specimens immersed for 1000 hours at indicated temperature and tested at room temperature.

	Test Temp.° C	% retained strength
50/50 Water / Glycol	87	80
Leaded Petrol	22	95
Motor Oil	125	95
Brake Fluid	22	100
Acetone	22	85

# Engineering Excellence

For technical information and support call 1-800-552-0299 or visit our website at

