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TECHNICAL DATA SHEETS TORQUE 180

Description:

Torque 180 fast curing high strength anaerobic adhesive for locking and sealing threads, and retaining of cylindrical components. Highly resistant to heat, corrosion, vibrations, water, gases, oils, hydrocarbons and many chemicals.

Properties of Uncured Product:

Composition
Appearance
Specific Gravity (77°F/25°C g/ml)
Viscosity,Brookfield (77°F/25°C mPa.s)

Urethane Methacrylate
Green, fluorescent liquid
1.13

Spindle 2- 20 rpm 400 to 600 mPa.s Flash Point, TCC >100°C Shelf life at 20°C 1 year Storage temperature 8° - 28°C

HEAT CURE

Typical heat cure conditions consist of heating and maintaining bondline at a temperature of 40°C and after one hour 100% of strength on steel is achieved

CURE SPEED VS. SUBSTRATE

% Full strength	Steel	Aluminium
25	10 min	1 hrs
50	20 min	8 hrs
100	2-72 hrs	

CURE SPEED VS JOINT GAI

	CURE SPEED VS. JUINT GAP		
% Full strength	Gap 0,05mm	Gap 0,25mm	
25	10 min	6 hrs	
50	20 min	15 hrs	
100	2-72 hrs		

CURE SPEED VS. TEMPERATURE

% Full strength	Temperature	
	5°C	40°C
25	3 hrs	4 min
50	6 hrs	8 min
100	30-72 hrs	50min-72 hrs

Properties of Cured Product:

Functional strength at 24 hrs 20° on steel		
18 to 35 N.m		
16 to 30 N.m		
80 X 10 ⁻⁶ 1/K		
0.1 W/Mk		
0.3 Kj.Kg ⁻¹ K ⁻¹		
-55° +150°C		

ENVIRONMENTAL RESISTANCE

Hot strength at temperature

est.Temp.°C	% retained strength
25°	100%
50°	100%
100°	97%
150°	75%

Heat aging

Samples aged 3000 hours at indicated temperature and tested at room temperature.

Test temp. °C	% retained strength
180°	30%
150°	100%

Chemical / Solvent Resistance

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

	Test Temp.° C	% retained strength
50/50 Water / Glycol	87	75
Unleaded Petrol	22	100
Motor Oil	125	100
Brake Fluid	22	100
Acetone	22	100

Engineering Excellence

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

