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EMERGENCY PHONE 1-800-255-3924 TECHNICAL DATA SHEETS TORQUE GM 50

Description:

Torque GM 50 is a anaerobic curing adhesive for the gasketing and sealing of flanges. To replaces solid gaskets, gives flexible cured films. To seal against gases, water, LPG, hydrocarbons, oils and other chemicals. Thixotropic property prevents migration of the sealant before or during curing. Shock and vibrations resistant are unaffected properties of sealing in the range of temperature from -50 to +150°C.

Properties of Uncured Product:

CompositionDimethacrylate esterAppearanceOrangeSpecific Gravity (77°F/25°C g/ml)1.1Viscosity, Brookfield (77°F/25°C mPa.s)Spindle 6- 20 rpm35000 to 48000 cpsFlash Point, TCC>93°CShelf life at 20°C1 yearStorage temperature8° - 28°C

HEAT CURE

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				
% Full strength	Steel	Aluminium		
25	30 min	2 hrs		
50	1 hrs	5 hrs		
100	10-72 hrs			

CURE SPEED VS. JOINT GAP

% Full strength	Gap 0.05mm	Gap 0.25mm
25	30 min	15 hrs
50	1 hrs	30 hrs
100	10– 72 hrs	

CURE SPEED VS. TEMPERATURE				
% Full strength	rength Temperature			
-	5°C	40°C		
25	1 hrs	15 min		
50	3 hrs	20 min		
100	24- 72 hrs	3- 72 hrs		

Properties of Cured Product:

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Shear Strength (ASTM I	D1002)	5 to 12 N.m			
Tensile Strength (DIN 53	3288)	2 to 8 N.m			
Coefficient of thermal expansion (ASTM D696)		80 X 10 ⁻⁶ 1/K			
Thermal conductivity(ASTM	Thermal conductivity(ASTM C177)				
Specific heat		0.3 Kj.Kg ⁻¹ K ⁻¹			
Temperature range		-55°+150°C			
ENVIRONMENTAL RESISTANCE					
Hot strength at temperatu	ire				
Test.Temp.°C	% retained strength				
25°					
50°		100%			
100°		65%			
150°		25%			
Heat ageing					
Samples aged 2000 hours at indicated temperature and tested at room					
temperature.					
Test temp. °C	% retained strength				
120°		100%			
150°		80%			
	ical / Solvent Resistan				
Specimens immersed for 1		d temperature and			
tested at room temperature					
		A () () (
	Test Temp.° C	% retained strength			
50/50 Water / Glycol	87	85			
Leaded Petrol	22	75			

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Engineering Excellence

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



Motor Oil

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