Permabond LH050P Pure Anaerobic Threadsealant

Category : Polymer , Adhesive , Thermoset

Material Notes:

PERMABOND® LH050 PURE anaerobic pipe sealant is single component paste that cures only when in contact with metal parts and oxygen is excluded. The sealant fills up the entire space between male and female parts, instantly sealing the connection for water, hydraulic fluids, air, gases and chemicals. Once cured, the cured anaerobic sealant typically exceeds the burst rating of the pipe and in addition it locks the pipes, plugs or fittings against vibration loosening. After cure, disassembly of fittings for maintenance is still possible using normal tools.Permabond® LH050 PURE pipe sealant performs well on most metals, particularly steel and brass. It provides an excellent alternative to pipe dopes and pipe tapes for sealing pipe joints. Another feature of PERMABOND® LH050 PURE is the ability to seal pipes that have not been fully seated. In piping systems, pipe joints must connect with other pipes and in the direction in which the joint must face may not allow the pipe to be fully seated. LH050 PURE will seal – even when the direction in which the pipe must face does not allow the complete seating of the threads. Anaerobic sealant will seal with simple hand assembly while still obtaining the seal of a fully torqued pipe joint. Features & Benefits: Full cure seal to the burst rating of pipe Easy to use and apply Directional freedom NSF/ANSI 61 Certified - Drinking Water System Components Does not contain solvents Excellent chemical and temperature resistance Cures at room temperature Will not shred, tear or cause blockages Information provided by Permabond.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Permabond-LH050P-Pure-Anaerobic-Threadsealant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	250000 cP @Temperature 25.0 °C	250000 cP @Temperature 77.0 °F	Uncured
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Adhesive Bond Strength	7.00 MPa	1020 psi	steel collar and pin shear; ISO 10123

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	177 °C	350 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	Brass, handling strength

Processing Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments
	120 min @Temperature 23.0 °C	2.00 hour @Temperature 73.4 °F	M10 steel, handling strength
	180 min @Temperature 23.0 °C	3.00 hour @Temperature 73.4 °F	Brass, working strength
	180 min @Temperature 23.0 °C	3.00 hour @Temperature 73.4 °F	Zinc, handling strength
	360 min @Temperature 23.0 °C	6.00 hour @Temperature 73.4 °F	Stainless steel, handling strength
	360 min @Temperature 23.0 °C	6.00 hour @Temperature 73.4 °F	M10 steel, working strength
	1440 min @Temperature 23.0 °C	24.0 hour @Temperature 73.4 °F	Zinc, working strength
	4320 min @Temperature 23.0 °C	72.0 hour @Temperature 73.4 °F	M10 steel, full strength
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	White	Uncured
Maximum Gap Fill (mm)	0.5	
Strength Retention	20% at 200°C	Relative to 0°C
	60% at 150°C	Relative to 0°C
	85% at 100°C	Relative to 0°C
	93% at 50°C	Relative to 0°C
Torque Strength (N m)	3	M10 steel, prevail
	4	M10 steel, break
UV Fluorescence	No	Uncured

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