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SONLOK™ 3554

Anaerobic Refrigerant Thread Sealant

SONLOK 3554 is a high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings. The product provides maximum solvent resistance on threaded fittings and pipe up to 5.0 cm in diameter.

SONLOK 3554 is ideal to seal against gases, water, LPG, hydrocarbons, oils and other chemicals. Excellent thixotropic property prevents migration of the sealant before or during curing.

Applications:

- Recommended for refrigeration systems and service with strong chemicals.
- Typical application includes metal and fiber plants, paper processing plants, chemical processing plants, waste treatment facilities, textile equipment and processing.

Adhesive Properties:

Composition:	Methacrylate Ester
Color:	Red
Viscosity:	2,500 cps at 25 °C
<small>Brookfield RVT Spindle 3 @ 20 rpm</small>	
Specific Gravity:	1.02
Flash Point:	> 100 °C
Solvent Content:	None

Curing Properties:

Handling Cure Time:	10 - 30 minutes
Functional Cure Time:	2 - 4 hours
Full Cure Time:	24 hours

Breakaway Torque, ISO 10964:	
M10 steel nuts and bolts N·m	12 N.m
	108 lb.in.

Prevail Torque, ISO 10964:	
M10 steel nuts and bolts	10 N.m
	88 lb.in.

Break loose Torque, ISO 10964, Pre-torqued to 5 N·m:	
M10 steel nuts and bolts	27.2 N.m.
	240 lb.in



Max. Prevail Torque, ISO 10964, Pre-torqued to 5 N-m:
M10 steel nuts and bolts N-m 23.8 N.m
210 lb.in.

Compressive Shear Strength, ISO 10123:
Steel pins and collars >10 N/mm²
1470 psi

Temperature Range -65 to 300 °F

Physical Properties:

Coefficient of Thermal Expansion, 80×10⁻⁶
ASTM D 696, K-1
Coefficient of Thermal Conductivity, 0.10
ASTM C 177, W/(m·K)
Specific Heat, kJ/(kg·K) 0.30

Chemical Resistance:

Chemical	Temp.	% Initial Strength Retained	
		500 hours	1000 hours
Acetone	22 °C	100	100
Ethanol	22 °C	100	90
Motor Oil	125 °C	100	100
Gasoline	22 °C	100	95
Brake Fluid	22 °C	100	95
Water/Glycol	87 °C	100	100

Application Method:

Surfaces should be dry, clean, and free of any contamination. Apply 360° bead of product to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also. Assemble and tighten as required.

Storage:

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 46 °F to 82 °F. Please do not return any unused material to its original container.

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

Warranty: All products purchased from or supplied by Parson are subject to terms and conditions set out in the contract. Parson warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Parson is considered accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Parson makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.