

**PALM LABS ADHESIVES**  
3063 Enterprise Road, DeBary FL, 32713  
Phone (321) 710-4850 Fax (321) 710-4875  
Email: [Sales@PalmLabsAdhesives.com](mailto:Sales@PalmLabsAdhesives.com)

## TECHNICAL DATA SHEET

### Anaerobic Thread Locking Compound

**TURBO-LOCK 13-OR SERIES** is a **RED**, high temperature, high strength, permanent, oil resistant, anaerobic thread-locking compound. It is highly resistance to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals. Disassembles with high heat and hand tools.

**Part Numbers for this TDS: 13-000-OR, 13-001-OR, 13-010-OR, 13-050-OR, 13-250-OR, 13-1000-OR**

#### Application

- Ideal for applications where the temperatures range from -65 to 450 ° F.
- Ideal for thread locking heavy duty applications such as bolts up to ¾" (20 mm) used in transmission, construction equipment or railroad assemblies, etc.
- Lubricated for easy assembly. Prevents loosening and leakage of threaded fasteners. Locks and seals threaded joints-nuts, screws, and studs. To disassemble, apply high heat and use tools.

#### ADHESIVE PROPERTIES

Color	Red/Orange
Composition	Methacrylate Ester
Viscosity (Brookfield RVT Spindle 3 @ 20 rpm)	3750 cps at 25 ° C
Specific Gravity	1.17
Maximum Diameter of Thread/Gap Filling	¾" / 20 mm
Flash Point	> 95 ° C
Solvent Content	None
Shelf Life	2 years

#### CURING PROPERTIES

Handling Cure Time	20-40 minutes
Functional Cure Time	1-3 hours
Full Cure Time	24 hours
Shear Strength	8 – 12 N/mm <sup>2</sup>
Locking Torque	
- Break	25 – 35 N.m
- Prevailing	6 – 11 N.m
Breakloose Torque	25 – 35 N.m
- Temperature Range	-65 to 450°F

## CHEMICAL RESISTANCE

<u>Chemical</u>	<u>Temperature</u>	<u>% Initial Strength Retained</u>	
		<u>500 Hours</u>	<u>1000 Hours</u>
Acetone	22 ° C	100	90
Ethanol	22 ° C	100	100
Motor Oil	125 ° C	100	100
Gasoline	22 ° C	100	100
Brake Fluid	22 ° C	100	100
Water/Glycol	87 ° C	90	80

### Application Method

Surfaces should be dry, clean, and free of any contamination. Thread locker should be applied to the bolt in sufficient quantity to fill threads. This thread locker is specifically formulated to give controlled friction and torque/tension ratio during assembly.

### Storage

Anaerobic adhesives are ideally stored in a cool, dry place in unopened containers at a room temperature between 46 ° F to 82 ° F. Please do not return 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 Warranty: All products purchased from or supplied by Palm Labs Adhesives are subject to terms and conditions set out in the contract. Palm Labs Adhesives warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Palm Labs Adhesives is consider 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. Palm Labs Adhesives 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 nor infringe any patent.

### Palm Labs Adhesives

Toll Free Phone 1-855-752-4583 Fax (321) 710-4875 Email: [Sales@PalmLabsAdhesives.com](mailto:Sales@PalmLabsAdhesives.com) 02/06/2017