



BOSS[®] 9277 Heavy Duty Bolt Locking Compound

TYPICAL PROPERTIES

Monomer (Liquid)

Base Compound	Dimethacrylate Ester
Appearance	Red Liquid
Viscosity (cP @ 68°F)	7000 cP
Specific Gravity (g/cc)	1.1
Gap Fill016"
Corrosivity	None
Flash Point (TCC)	>200°F
Toxicity	Low
Shelf Life @ 40°F	1 Year Unopened

Polymer (Cured)

Locking Strength	High
Appearance	Red Solid
Service Temperature Range	-75°F - 400°F
Full Cure Time	24 Hours
Shear Strength (steel nuts and bolts)	3000 psi

*Information on this data sheet is subject to change without notice and should not be used for writing specifications.
For additional information on specific applications, contact Accumetric, LLC



PERFORMANCE OF CURED MATERIALS

Bond strength after 24 hours at 69°F to 78°F (20°C to 25°C) on steel nuts and bolts.

	Average Value	Range
Breakaway Torque	255 in. lbs.	160-340 in. lbs.
Prevailing Torque	260 in. lbs.	190-330 in. lbs.

DESCRIPTION

BOSS[®] 9277 Heavy Duty Bolt Locking Compound is a single component, high viscosity anaerobic thread locking adhesive, which is thixotropic and develops high strength. The product cures between close fitting metal parts where there is an absence of air.

CURING PERFORMANCE

The gap of the bond line will affect set speed. Smaller gaps tend to increase the speed. Activators can be applied to improve set speed but may also impair overall adhesive performance.

FEATURES

- Meets Military Specification Mil-S-46163A, Type II, Grade K
- Prevents loosening of threaded fasteners
- Suitable for large assemblies and heavy duty applications where high levels of shock, vibration and stress are present

SETTING TIME (68°F, 65% RH)

Substrate	Set Time / Full Cure
Steel	25 minutes / 24 hours
Brass	45 minutes / 24 hours
Zn Dichromate	55 minutes / 24 hours
Stainless Steel	60 minutes / 24 hours

HOW TO USE

Surfaces to be bonded should be clean, dry and free of grease.

Product should be applied in enough quantity to fill all engaged threads. The product performs best in thin bond gaps. Very large gaps may create gaps which will affect the cure speed and overall strength. Good contact is essential. An adequate bond develops in 15 to 45 minutes and maximum strength is attained in 24 hours.

This product is not recommended for use in pure oxygen environments and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

This product is not designed for plastics, particularly thermoplastics where stress cracking of the plastic could result. It is recommended to confirm compatibility of the product with all substrates prior to use.

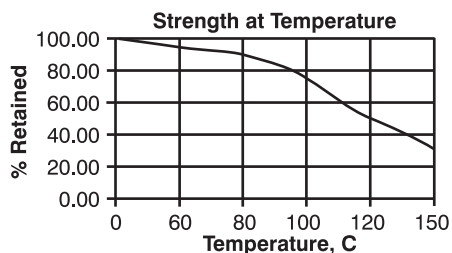
CHEMICAL RESISTANCE

Shear strength on steel after 500 hours

Solvent	% Strength Retained
Motor Oil	90
Unleaded Gasoline	100
Trichloroethane	90
Brake Fluid	100
Ethanol	90
Acetone	95
Water/Glycol Mix	95

TEMPERATURE RESISTANCE

% Retained strength when tested at temperature



CLEAN UP

Uncured sealant can be easily removed using a solvent such as alcohol or acetone. For an environmental and health friendlier choice use BOSS® Biggie Wipes. If the sealant is cured it must be removed mechanically by cutting and scraping.

PACKAGING

BOSS® 9277 is available in 50ml and 250ml bottles.

SHIPPING LIMITATIONS

None.
Reactive VOC 8 g/l (<1% wt)

STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), BOSS® 9277 Heavy Duty Bolt Locking Compound has a shelf life of 12 months from date of shipment. In Countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity.

Products can be refrigerated for improved shelf life but should be brought back to room temperature before use.

CAUTION

DIRECT CONTACT OF UNCURED PRODUCT IRRITATES EYES AND MAY IRRITATE SKIN. OVEREXPOSURE TO VAPOR MAY IRRITATE EYES, NOSE, AND THROAT. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hands. IN CASE OF EYE CONTACT, flush eyes with water for 15 minutes. Obtain medical attention. IN CASE OF SKIN CONTACT, remove from skin and flush with water. KEEP OUT OF THE REACH OF CHILDREN. For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

Non-warranty: Because the storage, handling and application of the material is beyond Accumetric's control, we can accept no liability for the results obtained. Accumetric's sole limited warranty is the product meets the manufacturing specifications in effect at time of shipment. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. Accumetric will not be liable for incidental or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is a refund of purchase price or replacement of any product shown to be other than as warranted.

Suggestions of uses should not be taken as inducements to infringe any patents.

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