



BOSS[®] 9680 Heavy Duty Retaining Compound

TYPICAL PROPERTIES

Monomer (Liquid)

Base Compound Dimethacrylate Ester
 Appearance Green Liquid
 Viscosity (cP @ 68°F) 2000 cP
 Specific Gravity (g/cc) 1.1
 Gap Fill015"
 Corrosivity None
 Flash Point (TCC) >200°F
 Toxicity Low
 Shelf Life @ 40°F 1 Year Unopened

Polymer (Cured)

Retaining Strength High
 Appearance Green Solid
 Service Temperature Range -75°F - 300°F
 Full Cure Time 24 Hours
 Shear Strength (steel nuts and bolts) 4000 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.

	Average Value	Range
Breakaway Torque	225 in. lbs.	150-300 in. lbs.
Prevailing Torque	325 in. lbs.	250-no limit in. lbs.

Shear Strength 2800-4000 psi.

DESCRIPTION

BOSS[®] 9680 Heavy Duty Retaining Compound is a single component anaerobic retaining adhesive, which 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-R-46082B, Type III, Grade R
- Can be applied to retain pulleys, gears, rotors and shafts
- Secures bushings, bearings and housing plugs
- Will augment shrink and press fit assemblies in demanding vibrational and high friction applications

SETTING TIME (68°F, 65% RH)

Substrate Set Time / Full Cure
 Steel 15 minutes / 24 hours
 Aluminum 20 minutes / 24 hours
 Zn Dichromate 45 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.

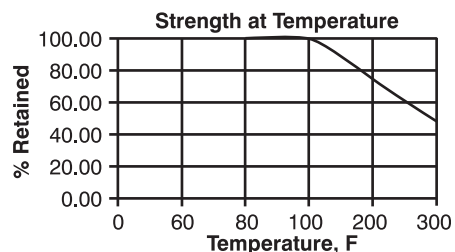
CHEMICAL RESISTANCE

Sheer strength on steel after 500 hours

Solvent	% Strength Retained
Motor Oil	100
Unleaded Gasoline	100
Brake Fluid	90
Ethanol	85
Acetone	85
Water/Glycol Mix	100

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® 9680 is available in 50ml and 250ml bottles.

SHIPPING LIMITATIONS

None.
Reactive VOC 41 g/l (<5% wt)

STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), BOSS® 9680 Heavy Duty Retaining 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.

MADE IN U.S.A.

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