

LOCTITE<sup>®</sup> EA 9177™

April 2016

## **PRODUCT DESCRIPTION**

LOCTITE<sup>®</sup> EA 9177<sup>™</sup> provides the following product characteristics:

Technology	Ероху
Chemical Type	Ероху
Appearance (Resin)	White
Appearance (Hardener)	Black
Components	Two component - requires mixing
Mix Ratio, by volume -	2:1
Resin : Hardener	
Mix Ratio, by weight -	2:1
Resin : Hardener	
Cure	Room temperature cure after mixing
Application	Bonding
Specific Application	Oil filter bonding

LOCTITE<sup>®</sup> EA 9177<sup>™</sup> is a two component, self-leveling, epoxy adhesive with high temperature resistance and good tolerance against hydraulic oils, lubricants, and gasoline. Typical applications include bonding of oil filters for hydraulic machines, motors and cooling systems and gasoline filters and assembly when a high thermal resistance is required.

# TYPICAL PROPERTIES OF UNCURED MATERIAL

Resin:	
Specific Gravity @ 25 °C	1.56 to 1.66
Viscosity, Brookfield, 25 °C, mPa.s: Spindle 7, speed 50 rpm Spindle 6, speed 10 rpm	15,000 to 35,000 15,000 to 35,000
Flash Point - See SDS	
Hardener:	
Specific Gravity @ 25 °C	1.54 to 1.64
Viscosity, Brookfield, 25 °C, mPa.s:	
Spindle 7, speed 50 rpm	11,000 to 29,000
Spindle 7, speed 10 rpm	11,000 to 32,000
Flash Point - See SDS	
Mixed:	
Specific Gravity, g/cm <sup>3</sup>	1.56

Pot life @ 25 °C, 200 gram mass, ISO 9514, 40 to 60 minutes

# GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet (SDS).

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

#### Directions for use:

- 1. For best performance part surfaces should be clean and free of grease.
- 2. Hand Mixing: Combine Part A & Part B in the correct ratio and mix thoroughly. Be sure to scrape both the sides and bottom of mixing container. Mix for approximately 15 seconds after uniform color is obtained. Heat build-up during or after mixing is normal. Do not mix large quantities as excessive exotherm or heat build up will develop. Mixing smaller amounts will minimize heat buildup

**Bulk Containers:** Normally material is dispensed through volumetric metered mixing equipment, attached to static mix nozzles. It may also be mixed by weight or volume as described above.

- 3. Application to the substrates should be made within 5 minutes. Larger quantities and/or higher temperatures will reduce this working time.
- 4. Join the adhesive coated surfaces and allow to cure at 25 °C for 24 hours for high strength.
- 5. Keep parts from moving during cure to ensure maximum bond strength.

## Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

#### Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

**Optimal Storage:** 8 °C to 21 °C. **Storage below** 8 °C or **greater than 28** °C **can adversely affect product properties**. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.



#### Reference 0.0

#### Conversions

 $(^{\circ}C x 1.8) + 32 = ^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches  $\mu$ m / 25.4 = mil N x 0.225 = lb N/mm x 5.71 = lb/in N/mm<sup>2</sup> x 145 = psi MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

#### Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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