



# LOCTITE® PC 9020 EU

Known as LOCTITE® 9020  
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**Product description**

LOCTITE® PC 9020 EU provides the following product characteristics:

Technology	Epoxy
Chemical type	Epoxy
Appearance (resin)	Off-white
Appearance (hardener)	Clear blue
Appearance (mixed)	Pale blue
Components	Two components – resin & hardener
Mix Ratio, (by weight) resin : hardener	100 : 6.66
Mix Ratio, (by volume) resin : hardener	100 : 11.93
Cure	Room temperature cure after mixing
Application	Crusher repair products
Application temperature	15°C to 65°C (59°F to 149°F)
Specific benefits	<ul style="list-style-type: none"><li>• Easy and safe to use</li><li>• High compression strength</li><li>• Low odor</li><li>• Minimal shrinkage</li><li>• Excellent impact resistance</li></ul>

LOCTITE® PC 9020 EU is an epoxy system for backing wear metal in gyratory and cone crushers. LOCTITE® PC 9020 EU is designed to eliminate the need for traditional melting or special equipment, and it has high hydrolytic stability (low water absorption). Its high volumetric stability eliminates the formation of gaps between backing and liners or support structures, allowing for fast return to service.

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

**Resin:**  
Specific Gravity @ 23°C 1.8  
Viscosity, Brookfield - RVT @ 25 °C, mPa.s (cP): 28 000  
Spindle 6, speed 20 rpm

**Hardener:**  
Specific Gravity @ 23°C 1  
Viscosity, Brookfield - RVT @ 25 °C, mPa.s (cP): 100  
Spindle 1, speed 50 rpm

**Mixed**  
Specific gravity @ 23°C 1.7

**TYPICAL CURING PERFORMANCE**

Curing @ 25°C, 50%RH  
Gel time, 400g mass, ASTM D2471, minutes 15

**TYPICAL PROPERTIES OF CURED MATERIAL**

Cured for 1 week @ 23 °C

**Physical properties:**  
Glass transition temperature (Tg), °C 60  
TMA, ISO 11359-2  
Shore Hardness, ISO 868, Durometer D 84  
Tensile strength, ISO 527-2 N/mm<sup>2</sup> 37  
(psi) (5 455)  
Tensile Modulus, ISO 527-2 N/mm<sup>2</sup> 9370  
(psi) (1 359 000)  
Compressive strength, ISO 604 N/mm<sup>2</sup> >104  
(psi) (>15 100)  
Compressive modulus, ISO 604 N/mm<sup>2</sup> 11 412  
(psi) (1 655 170)  
Flexural Strength, ISO 178 N/mm<sup>2</sup> 112  
(psi) (16 250)  
Flexural modulus , ISO 178 N/mm<sup>2</sup> 9496  
(psi) (1 377 250)

**GENERAL INFORMATION**

**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.**

**For safe handling information on this product, consult the Material Safety Data Sheet.**



## Directions for use

### Surface preparation

Proper surface preparation is critical to the long-term performance of this product. The exact requirements vary with the severity of the application, expected service life, and initial substrate conditions.

1. If a bond to the substrate is desired, remove dirt, oil, grease etc. with a suitable cleaner, e.g. high-pressure water cleaning system using LOCTITE® cleaner/degreaser, from all metallic parts that come in contact with LOCTITE® PC 9020 EU.
2. If easier removal of worn liners is desired, coat the appropriate surfaces with a release agent such as grease or light oil.
3. Seal all gaps, hook holds, bottom joints, and protected threaded parts of shafts where necessary.

### Preparation of Backing Material

1. LOCTITE® PC 9020 EU and substrate must be between 15 to 35°C (60 to 95°F) before application:
  - a. Lower temperatures increase the working time, but the increase in viscosity makes the material harder to pour.
  - b. Higher temperatures reduce the working time, but the product is easier to pour into the crusher.

### Mixing

1. Pre-mix resin approximately 1 minute.
2. Shake hardener thoroughly mixing its contents.
3. While mixing resin, add hardener contents.
4. As the product is mixed, blue streaks will appear in the product.
5. Continue mixing until the entire contents of the pail are pale blue, making sure to scrape the sides and bottom of the pail thoroughly until there are no signs of yellowish-green material.

### Application

1. Pour mixture immediately after mixing. Pour at one place and allow LOCTITE® PC 9020 EU to fill the cavity and push out the air in front of it. Use dam (tin, cardboard, clay, etc.) to direct the flow when necessary. Any unmixed resin (different color clinging to the sides and bottom) should not be drained into the crusher.
2. Succeeding kits may be mixed and poured individually as needed. LOCTITE® PC 9020 EU adheres to itself.

**Caution:** Use an approved, positive-pressure, supplied air respirator when welding or torch cutting near cured compound. **Do Not** use open flame on compound.

## Technical Tips for Working With Epoxies

### Environmental Conditions

- Relative humidity: <85%
- Ambient temperature: >15°C (60°F) and rising
- Substrate temperature must always be 3°C (37°F) higher than the dew point to avoid condensing moisture on parts.

Working time and cure depends on temperature and mass:

- The higher the temperature, the faster the cure.
- The larger the mass of material, the faster the cure.

To speed the cure of epoxies at low temperatures:

- Store epoxy at room temperature.
- Pre-heat repair surface until warm to the touch.

To slow the cure of epoxies at high temperatures:

- Mix epoxy in small masses to prevent rapid curing.
- Cool resin/hardener component(s).

### Clean-up

Immediately after use, clean tools with LOCTITE® solvent based cleaner. Once cured, the material can only be removed mechanically.

### Storage

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

### Product specification

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

### Approval and certificate

Please contact Henkel representative for related approval or certificate of this product.

### Data ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23±2°C / 50±5% RH



**Conversions**

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

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