Technical Data Sheet

LOCTITE® 7229™

Nordbak High Temperature Pneu-Wear
(Draft Kelleher) December 2016

PRODUCT DESCRIPTION

LOCTITE® 7229™ provides the following product characteristics:

Technology	Epoxy
Chemical Type	Epoxy
Appearance (uncured)	Thixotropic gray paste
Components	Two components - requires mixing
Cure	Room temperature cure
Application	Abrasion resistance
Specific Application	• Providing protective lining in pneumatic conveying systems • Repairing and providing abrasion resistance in elbows, exhausters, hoppers, cyclones and dust collectors
Specific Benefits	• Small ceramic bead filled - resists fine particle abrasion • Prolongs equipment life • Easy to mix and use • Renews worn surfaces fast - reduces downtime • Non sag - provides abrasion resistance on over-head and vertical surfaces
Mix Ratio, (by volume) Resin : Hardener	4 : 1
Mix Ratio, by weight - Resin : Hardener	4 : 1

LOCTITE® 7229™ is a small ceramic bead filled two-part epoxy putty, designed to protect equipment from fine particle abrasion in wet and dry service. LOCTITE® 7229™ requires post-curing for ultimate performance and temperature resistance.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Coverage	0.74 m² @ 6 mm thick/10 kg

TYPICAL CURING PERFORMANCE

Curing Properties

Working Time @ 25 °C, minutes	30

TYPICAL PROPERTIES OF CURED MATERIAL

Cured @ 25 °C

Physical Properties:

Compressive Strength, ISO 604	N/mm²	103.4
	(psi)	(15,000)
Shore Hardness, ISO 868, Durometer D		85

TYPICAL PERFORMANCE OF CURED MATERIAL

Adhesive Properties

Cured @ 25 °C

Lap Shear Strength :

Aluminum (acid etched):

0.125 mm gap	N/mm²	34.5
	(psi)	(5,000)

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 Safety Data Sheet (SDS).

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. Thoroughly clean and abrade surfaces (grit blast if possible), finally clean with LOCTITE® 7063™. The more thorough the degree of surface preparation the better the performance of the application.
2. On vertical or overhead areas, it is recommended to tack expanded metal mesh to substrate before application of LOCTITE® 7229™.

Mixing:

1. Measure 4 parts resin to 1 part hardener by volume or weight, transfer entire kit onto a clean and dry mixing surface and mix together until uniform in color.
2. If resin and hardener temperatures are 15 °C or below, preheat resin only to about 30 °C but not to exceed 40 °C .

Application

1. Apply fully mixed material to the prepared surface .
2. Initially apply the material in a very thin layer to "wet" out the surface and avoid air entrapment.
3. Build up to desired thickness (minimum 6 mm), avoid air entrapment.
4. At 25 °C working time is 30 minutes. Functional cure time is 6 hours, post cure at 150 °C for 2 hours.

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

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).

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 Henkel representative.

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² 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

Disclaimer

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