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Product Description Sheet

3462 Fast Set Steel Putty

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PRODUCT DESCRIPTION

Loctite 3462 is a rapid curing steel filled two-part epoxy repair putty, it has high compressive strength, and can be machined, drilled etc. Temperature resistance -30° to +90°C.

Special Features

- Hardens in ten minutes – fast emergency repairs that reduce downtime.
- Steel filled system – cures to a metal-like finish.
- Non-sag paste – allows application versatility for overhead and vertical surfaces.
- Excellent adhesion – forms a permanent bond.

TYPICAL APPLICATIONS

- Fast repair of leaking pipes and tanks
- Repair of non structural defects in castings
- Stripped threads
- Building up worn surfaces.

PROPERTIES OF UNCURED MATERIAL

Mixture	Typical Value
Appearance	Metallic Grey Paste
Mix Ratio (R:H) by Volume	1:1
by Weight	6.3:1
Coverage	680 cm ² @ 6mm thick per 1 kg. kit 130 in ² @ ¼ in. thick per 1 kg. kit

TYPICAL CURING PERFORMANCE

Curing Properties

(@ 25°C unless noted)

	Typical Value
Working Life, minutes	3
Cure Time, minutes	10

TYPICAL PROPERTIES OF CURED MATERIAL

(@ 25°C unless noted)

Physical Properties	Typical Value
Compressive Strength, ASTM D695, N/mm ²	74.5
Shear Strength ASTM D1002, N/mm ²	13.8
.125mm gap, acid etched aluminium	
Tensile Strength, ASTM D638 N/mm ²	31.7
Hardness ASTM D-2240, Shore D	80

DIRECTIONS FOR USE

- Thoroughly clean and abrade surfaces (grit blast if possible), finally clean with Loctite 7063.
- Mix 1 part resin to 1 part hardener by volume (6.3 to 1 by weight) or transfer entire kit onto a clean and dry mixing surface and mix together until uniform in colour. If resin and hardener temperatures are 15°C or below, preheat resin only to about 32°C but not to exceed 38°C
- Initially apply as a thin film, build up to desired thickness.
- At 25°C working time of material is 3 minutes, cure time 10 minutes.

TECHNICAL TIPS FOR WORKING WITH EPOXIES

Working time and cure time depends on temperature and mass:

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

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, (MSDS).

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C unless otherwise labelled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact Loctite UK Technical Service

Data Ranges

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

Note

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