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Product Description Sheet

3463 Metal Magic Steel

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PRODUCT DESCRIPTION

Loctite 3463 Metal Magic Steel is a versatile single part easy to use steel filled epoxy repair putty. 3463 Metal Magic Steel is applied like a putty, when cured it has high compressive strength and good adhesion to most surfaces. Temperature range -30° to +120°C

Advantages:

- Cures in 10 minutes for fast repairs
- Cures under water and will adhere to damp surfaces.
- Convenient packaging makes it easy to use.
- Adheres to most types of clean surfaces.

TYPICAL APPLICATIONS

- NSF approved for potable water
- Stop leaks in pipes and tanks
- Fill oversized bolt holes
- Smooth welds
- Repairing non structural defects in castings holes in tanks

PROPERTIES OF UNCURED MIXED MATERIAL

	Typical Value
Appearance	Metallic Grey Paste
Coverage	45 cm ² @ 6 mm thick per tube 7 in ² @ 1/4" thick per tube

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	82.7
Shear Strength ASTM D1002, N/mm ²	4.8
.125mm gap, acid etched aluminium	
Tensile Strength, ASTM D638, N/mm ²	17.2
Hardness ASTM D-2240, Shore D	80

DIRECTIONS FOR USE

CAUTION! DO NOT APPLY TO SURFACES ABOVE 66°C (150°F)

- Thoroughly clean and abrade surfaces, finally clean with Loctite 7063. Partially remove plastic film, cut desired length, twist and knead until material is smooth, and colour is consistent (use rubber/plastic gloves)
- Firmly apply to bond area and smooth to desired shape.
- For a smooth finish, wet a cloth or finger with water and smooth.
- At 25°C Metal Magic Steel is workable for 3 minutes and sets in 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 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 putty down.

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. 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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PLEASE CONTACT LOCTITE CORPORATION QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.
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