

TECHNICAL DATA BULLETIN

## MS7125 5minute Steel Putty *Structural Epoxy Putty*

### PRODUCT DESCRIPTION:

MS7125 5minute Steel Putty, is a two part, epoxy compound that cures quickly at room temperature. MS7125 5minute Steel Putty is designed for:

- Bridging large gaps or holes
- Vertical surface applications
- Bonding to Aluminum, Steel, Concrete, and many other metals
- Resistance to chemicals, including most acids and bases
- Machinability to a metallic finish

The mix ratio of MS7125 5minute Steel Putty resin to hardener is 100:60 by weight and 1:1 by volume.

### INSTRUCTIONS FOR USE:

Combine the proper proportions of resin and hardener in a clean container. Mix both components thoroughly until a uniform dark gray color is achieved. The work life of the mixture will vary with temperature and the quantity of material. Consult MSDS for additional safety measures. A total mixed mass greater than 100 grams is not recommended since the mixture is very reactive, exothermic and greatly shortens the working life.

### Properties of Materials As Supplied:

(All tests are conducted at 25°+/- 2°C, unless otherwise indicated.)

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#### Part A Resin:

Property	Test Method	Unit	Value
Chemical Type	---	---	Epoxy
Appearance	Visual	---	Dark Gray Paste
Density	ASTM D1875-03	g /cc (lb/gal)	2.65 (22.1)

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#### Part B Hardener:

Property	Test Method	Unit	Value
Chemical Type	---	---	Mercaptan
Appearance	Visual	---	Off White
Density	ASTM D1875-03	g /cc (lb/gal)	1.56 (13.0)

# ManuSpec Company, Inc.

\*MSBond\*MSCoat\*MSSeal\*

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## Properties of Mixed Material:

Property	Test Method	Unit	Value
Appearance	Visual	---	Dark Gray Paste
Density	ASTM D1875-03	g /cc (lb/gal)	2.1(17.5)
Pot Life (20g mass @25°C)	---	minutes	4-6

## Cure Schedule:

Cure Temperature (°C)	Cure Time
25 °C	16 hr
Or	
2.5hr@25°C +4hr@93°C	

## Properties of Cured Material:

### Cure Cycle: 24hr@25°C, 50%RH

Property	Test Method	Unit	Value
Lap Shear Strength (FPL etched 2024 T3 bare Aluminum)	ASTM D1002	psi	2500
Compressive Strength	ASTM D695	psi	15,500
Hardness	Shore D	scale	85
CTE	TMA	ppm/°C	34
Shrinkage	ASTM D2566	cm/cm	1.52E-03
Dielectric Constant	ASTM D149	n/a	35
Dielectric Strength	ASTM D149	volts/mil	30
Thermal Conductivity	ASTM C177	cal/sec·cm·°C	2.65E-03

*Additional specific cured properties of MS7125 5minute Steel Putty may be supplied upon request.*

## STORAGE AND HANDLING:

The shelf life of MS7125 5minute Steel Putty is 12 months at 25 °C. For best results, store in original, tightly closed containers in a cool, dry place out of direct sunlight. Containers should be loosely covered during the heating process to avoid pressure buildup. Allow contents to return to room temperature before mixing resin and hardener.

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### **PACKAGING:**

MS7125 5minute Steel Putty is packaged in pints, quarts, gallons, pails, drums. The hardener is packaged according to the container size of the resin. Specialty packaging options are available on request. Contact customer service for additional information at 281-351-9889 or [sales@manuspec.net](mailto:sales@manuspec.net)

### **GENERAL INFORMATION:**

Recommendations for the use of products are based upon tests believed by us to be reliable. However, since the handling and use of our products under user's conditions are beyond our control, no warranty, expressed or implied, including but not limited to merchantability or fitness for a particular use, is made concerning this product. The user assumes all risks of use or handling, whether or not in accordance with any directions or suggestions of the supplier. Seller shall not be liable to purchaser or any other person for loss or damage directly or indirectly arising from the use of our products, from breach of any warranty or any other cause, the exclusive remedy against the seller being to require replacement or repair of defective goods. If the purchaser does not accept products on such items, they are to be returned at once, unopened. **This material is for professional and industrial use only.**

*PRODUCT INFORMATION CONTAINED HEREIN IS INTENDED FOR REFERENCE ONLY. MATERIAL SAFETY DATA INFORMATION AVAILABLE AT (281) 351-9889 OR [www.manuspec.net](http://www.manuspec.net).*