

## YaYa.tech M-2

### PRODUCT DESCRIPTION:

**YaYa.tech M-2 is a special alloy reinforced**, temperature and chemical high-resistant **2-pack composite repair grouting product** containing special reinforcement by silanized high-tech organo-ceramic and alloy particles, combined with Fulleren-induced crosslinking intensification, dispersed into an ultra-modern hybridized epoxy-novolac-resin, providing chemical resistance and abrasion protection to a wide variety of metal and cementitious substrates in extremely aggressive environments at elevated temperatures.

- Solvent-free
- High abrasion resistance
- High chemical resistance
- Machinable after curing

### APPLICATION RANGE:

- Repair / Reconstruction of surfaces
- Screw conveyors, haulage systems
- Pumps, cyclones, compressors

### TECHNICAL INFORMATION:

<b>Colour:</b>	very dark grey	<b>Chemical resistance:</b>	Excellent
<b>Surface:</b>	mat	<b>Abrasion resistance:</b>	Excellent
<b>Volume Solids:</b>	100%	<b>Adhesion:</b>	Excellent on steel and concrete (>30 Mpa on carbon steel)
<b>VOC:</b>	0 mg	<b>Specific Gravity (Mix):</b>	2,0

#### Application:

Typical film thickness per coat		Theoretical consumption kg/m <sup>2</sup>
dry	wet	
1 mm	1 mm	2,0

**Number of coats:** 0,5 mm – 5 mm per pass to be raked by hand tools like spatula on blasted (SA2,5) substrates. Sagging limit is approx. 2 mm at 20°C ambient temperature.

**Machine processing:** After full curing mechanical grinding is possible.

### APPLICATION DATA:

<b>Application methods:</b>	Hand tools (spatula, blades, etc...)
<b>Mixing (by weight):</b>	7 Parts A (base) to be mixed manually with 1 Part B (hardener)
<b>Potlife (25° C):</b>	40 minutes (reduced at higher temperatures)
<b>Thinner:</b>	Thinners should not be added. We recommend to use YaYa.tech cleaners to clean the equipment.

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### **SURFACE PREPARATION:**

All surfaces to be coated should be clean, dry and free from contamination. Prior to application, all surfaces should be assessed and treated in accordance with ISO 8504:2000. Remove weld spatter and smooth weld seams and sharp edges. Oil or grease should be removed according to SSPC-SP1 solvent cleaning.

#### **Abrasive Blast Cleaning**

For best adhesion results the surfaces should be prepared by abrasive blast cleaning to minimum SA 2,5 (ISO 8501-1:2007) or SSPC-SP10. A sharp, angular surface profile of 75-100 µm is required. Contact Ultra Perform Coatings GmbH for further information.

The coating system must be applied before oxidation of the steel occurs. If oxidation does occur the entire oxidized area should be reblasted to the standard specified above. Surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.

#### **Concrete Substrates**

Refer to Ultra Perform Coatings GmbH for specific recommendations.

### **CONDITION DURING APPLICATION:**

Substrate temperature must be above 10°C and at least 3°C above dew point. Relative humidity should be below 85%. Temperature and relative humidity must be measured in the vicinity of the substrate.

### **DRYING TIME:**

Substrate Temperature	Fully cured	Chemically resistant
25°C	24h	5 d

### **STORAGE AND PACKING:**

Preferred storage conditions are to keep the containers in a dry and cool area below 35°C provided with adequate ventilation. The containers should be sealed tightly.

Packing: 0.96 kg kits incl. hardener (0.84 kg part A + 0.12 kg part B)  
Shelf life: 1 year, see labels for details

### **QUALITY ASSURANCE AND INSPECTION:**

To ensure a continuous quality of the product, the quality assurance and inspection plan of Ultra Perform Coatings GmbH has to be considered. Recommendations for qualified test control units are also available.

### **HEALTH AND SAFETY:**

Observe the precautionary notices on the container label, and read the Material Safety Data Sheet before use. The product is intended for use by properly qualified professional applicators in industrial conditions. The product is flammable and should be kept away from sparks, open flames, and other sources of ignition. Smoking is prohibited in the application area. Wear suitable respiratory equipment and apply in well ventilated areas. Avoid contact with skin and eyes.

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### **DISCLAIMER:**

All technical information in this Product Data Sheet is signified as material description and based on laboratory tests and practical experiences under normal conditions. During individual use, actual measured data may vary due to circumstances beyond our control. In particular, the recommendations regarding the application and use require the proper storage and treatment of our products. Due to differences in materials, substrates and real site conditions Ultra Perform Coatings GmbH does not assume any warranty or liability for application results or fitness for a particular purpose, of any legal relationship whatsoever, neither from this information, nor from any given recommendations, or from any other oral advice. The user of the product must check the product's suitability for the intended application and purpose. Ultra Perform reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our general terms and conditions of sale and delivery. The most recent issue of the Product Data Sheet has to be considered, please ask always for the current version.

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