

# POLYGARD® MTX 5022

5mm Epoxy Mortar Topping With Self-Leveling Finish – Smooth



## DESCRIPTION

5mm thick, heavy duty epoxy mortar topping system finished with a self-leveling finish.

## USES

Suitable for heavy duty applications in all industries, for work platforms, ramps, traffic aisles, shower rooms, food and beverage manufacturing plants, chemical processing plants, plating plants, printing and packaging, electronics and computer manufacturing plants, wafer fabrication plants and pulp and paper mills.

## BENEFITS

- Solventless system.
- Chemical resistance.
- High gloss hygienic finish.
- Excellent impact resistance.
- Withstands heavy forklift traffic.

## TECHNICAL DATA

After 7 days cure @ 28°C			
Compressive Strength.....	<b>9,800psi</b> (ASTM C-579) (67.6 MPa)	Tensile Strength.....	<b>1,650psi</b> (ASTM C-307) (11.4 MPa)
Flexural Strength.....	<b>4,200psi</b> (ASTM C-580) (29.0 MPa)	Hardness.....	<b>87</b> (ASTM D-2240/Shore D)
Abrasion Resistance.....	<b>0.1g max wt. Loss</b> (ASTM D-4060, CS-17 Wheel) @ 1000g loading	Bond Strength.....	<b>&gt;400psi</b> (ASTM D-4541) (100% concrete failure)
Flexural Modulus Of Elasticity.....	<b>2.0 x 10<sup>6</sup>psi</b> (ASTM C-580)	Coefficient Of Thermal Expansion.....	<b>4.0 x 10<sup>-5</sup>cm/cm°C</b> (ASTM C-531)
Temperature Resistance.....	<b>60°C</b> (Continuous Exposure)	Water Absorption.....	<b>0.2%</b>

SYSTEM STRUCTURE	PROCESS	PRODUCT/EQPT	DOSAGE
	Degreasing (if necessary)	Degreaser	Contact Us For More Details
	Shot Blasting	Blastrac 1-10D	
	Tack Coat	EP 814	
	Mortar Base	EP 816 & Filler #7	
	Grout Coat	EP 816 & Filler #8	
	Epoxy Finish	EP 812 & Filler #6	
<p><b>NOTE:</b>  <b>POLYGARD® MTX 5022</b> should not be applied at floor temperatures below 15°C.                      Temperatures should not fall below 10°C in the 24 hours after application.</p>			

## **APPLICATION**

### **SUBSTRATE REQUIREMENTS / PREPARATION**

- Concrete floor must be waterproofed and graded to specified levels and falls.
- Concrete floor shall be cured for minimum twenty-one (21) days.
- Chip off all cement droppings and cement overpours.
- Degrease oil/grease contaminants with industrial degreaser.
- Shotblast surfaces to achieve suitable surface profile.
- Remove dust with industrial vacuum prior to application of coating.

### **APPLICATION PROCEDURES**

- Apply Polygard EP814 epoxy tack coat.
- Immediately apply Polygard EP816 as mortar base using power trowel and allow to dry for six (6) hours.
- Apply Polygard EP816 as grout coat and allow to dry for six (6) hours.
- Apply Polygard EP812 self leveling epoxy finish.
- Allow twenty-four (24) hours drying time before opening to light foot traffic and seven (7) days for chemical service conditions.

### **SAFETY REQUIREMENTS**

Products contain epoxy resin and amines. Do not take internally. May irritate eyes and skin. Protective clothing and gloves are recommended to prevent sensitization to these materials. In case of eye contact, flush with soap and clean water and seek medical attention.

### **TECHNICAL ASSISTANCE**

**POLYGARD® MTX 5022 Floor System** should be applied by specialist applicators. Technical advice or assistance on suitability of system for specific application and end-user requirements are available from **POLYMER INTERNATIONAL HOLDING PTE LTD**. Individual Product Data Sheets are available upon request.

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