

# ECOGARD® MTX 5020

5mm Epoxy Mortar Topping – Smooth



032-100  
Environmentally Friendly /  
Low VOC Coating



## DESCRIPTION

A 5mm thick heavy duty epoxy mortar floor system finished smooth.

## USES

Suitable for heavy duty applications in all industries; examples are car parks, work platforms, ramps, traffic aisles, shower rooms, wet 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> (67.6 MPa)	Tensile Strength.....	<b>1,650psi</b> (11.4 MPa)
Flexural Strength.....	<b>4200psi</b> (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 Expansion.....	<b>4.0 x 10<sup>-5</sup>cm/cm°C</b> (ASTM E-831)
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 824	
	Mortar Base	EP 826 & Filler #7	
	Grout Coat	EP 826 & Filler #8	
	Epoxy Finish	EP 822	
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<p><b>NOTE:</b>  <b>ECOGARD® MTX 5020</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 EP824 epoxy tack coat.
- Immediately apply Polygard EP826 as mortar base using power trowel and allow to dry for six (6) hours.
- Apply Polygard EP826 as grout coat and allow to dry for six (6) hours.
- Apply two (2) coats Polygard EP822 epoxy finish allowing six (6) hours drying time in between coats
- 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**

**ECOGARD® MTX 5020 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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