

POLYGARD™ MTX 5091

5mm Epoxy Mortar with Aliphatic Polyurethane finish – Non-slip



DESCRIPTION

5mm thick heavy-duty epoxy mortar topping with aliphatic polyurethane, non-slip finish.

USES

Suitable for use in interior and exterior, heavy traffic areas in all industries for manufacturing, packing and warehouse areas in food manufacturing plants, plating and processing plants, pharmaceutical plants, wafer fabrication plants, electronics and computer manufacturing plants, printing and packaging plants, aircraft and aerospace industries.

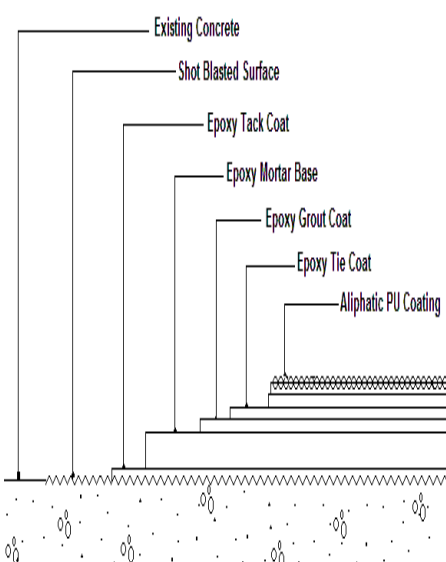
BENEFITS

- Chemical resistance.
- Withstands light forklift traffic.
- Suitable for areas exposed to UV and sunlight.

TECHNICAL DATA

After 7 days cure @ 28°C

Compressive Strength..... 9800psi (ASTM C-579) (67.6 MPa)	Tensile Strength..... 1650psi (ASTM C-307) (11.4 MPa)
Flexural Strength..... 4200psi (ASTM D-790) (29 MPa)	Hardness..... 87 (ASTM D-2240/Shore D)
Abrasion Resistance..... 0.1g max wt. Loss (ASTM D-4060, CS-17 Wheel) @ 1000g loading	Bond Strength..... >400psi (ASTM D-4541) (100% concrete failure)
Flexural Modulus Of Elasticity..... 2.0 x 10⁶psi (ASTM D-790)	Coefficient Of Expansion..... 3.5 x 10⁻⁵in/in°C (ASTM E-831)
Temperature Resistance..... 80°C (Continuous Exposure)	Water Absorption..... 0.2%

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	
	Tie Coat (light broadcast)	EP 816	
	Aliphatic Polyurethane finish (non-slip)	PU 913	
	NOTE: <i>POLYGARD™ MTX 5091 should not be applied at floor temperatures below 15°C. Temperatures should not fall below 10°C in the 24 hours after application.</i>		

APPLICATION

SUBSTRATE REQUIREMENTS / PREPARATION

- Concrete floor must be waterproofed and graded to specified levels and falls.
- Concrete floor shall be cured for minimum 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 6 hours.
- Apply Polygard EP816 as grout coat and allow to dry for 6 hours.
- Apply Polygard EP816 tie coat and allow to dry for 6 hours.
- Apply 1 coat Polygard Aliphatic PU913 non-slip finish within 24 hours after applying tie coat.
- Allow 24 hours drying time before opening to light foot traffic and 7 days for chemical service conditions.

SAFETY REQUIREMENTS

Products contain epoxy resin, amines and isocyanates. 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 5091 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.

The statement provided concerning the materials shown are intended solely as a general guide for material usage and are believed to be true and accurate. Since the manner of use is beyond our control, POLYMER INTERNATIONAL HOLDING does not make nor does it authorize anyone to make any warranty of merchant ability or fitness for any purpose or any other warranty, guarantee or representation, express or implied, concerning this material except that it conforms to POLYMER INTERNATIONAL HOLDING product sample. Buyer and user except the product under these conditions and assume the risk of any failure, injury of person or property and loss or liability resulting from the handling, storage or use of the product, whether or not handled, stored or used in accordance with directions or specification. Under no circumstances shall POLYMER INTERNATIONAL HOLDING be liable for consequential or incidental damages arising from any breach of warranty. In all cases, POLYMER INTERNATIONAL HOLDING liability is limited, at POLYMER INTERNATIONAL HOLDING option, to the replacement of goods or their value, proven to be defective in manufacturing.

POLYMER INTERNATIONAL HOLDING PTE LTD
289, Kaki Bukit Ave. 1, Shun Li Industrial Park, Singapore 416079

SINGAPORE	:	Tel: (65) 6749 3113	Fax: (65) 6749 3990	Email: sales@polymer-international.com
SELANGOR	:	Tel: (603) 5121 3388	Fax: (603) 5121 6113	Email: pam@polymer-international.com
JOHOR BAHRU	:	Tel: (607) 358 5755	Fax: (607) 358 4757	Email: paj@polymer-international.com
THAILAND	:	Tel: (66) 85 661 1377	Fax: (662) 905 3319	Email: patt@polymer-international.com
INDONESIA	:	Tel: (62-21) 2928 0744		Email: pai@polymer-international.com
PHILIPPINES	:	Tel: (63) 916 482 2746		Email: patp@polymer-international.com