

# POLYGARD™ SLT 2091

2mm Self-leveling Epoxy with Aliphatic Polyurethane Non-slip Finish.



## DESCRIPTION

2mm thick, medium duty, smooth self-leveling epoxy floor system with aliphatic polyurethane finish.

## USES

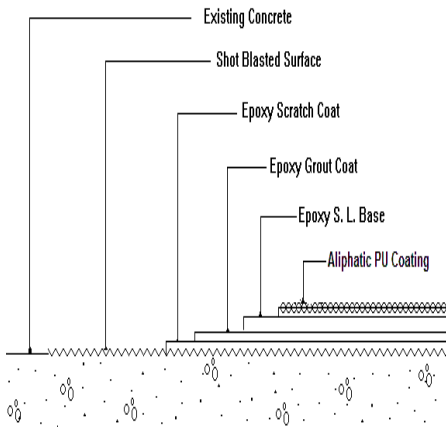
Suitable for medium duty applications in all industries for both interior and exterior surfaces in clean rooms, laboratories, packing areas, assembly areas and light manufacturing areas in pharmaceutical plants, dry food manufacturing plants, wafer fabrication plants, electronics and computer manufacturing 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.....	<b>9000psi</b> (ASTM C-579) (67.6 MPa)	Tensile Strength.....	<b>1800psi</b> (ASTM C-307) (11.4 MPa)
Flexural Strength.....	<b>4400psi</b> (ASTM D-790) (29 MPa)	Hardness.....	<b>84</b> (ASTM D-2240/Shore D)
Abrasion Resistance.....	<b>0.1g</b> max wt. Loss (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>5.0 x 10<sup>5</sup>psi</b> (ASTM D-790)	Coefficient Of Expansion.....	<b>5.3 x 10<sup>-5</sup>in/in°C</b> (ASTM E-831)
Temperature Resistance.....	<b>80°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	
	Epoxy Scratch Coat	EP816 & Filler #4	
	Epoxy Grout Coat	EP816 & Filler #8	
	Epoxy Finishing Coat	EP812 & Filler #6	
	Aliphatic Polyurethane (Non-slip Finish)	PU913	
<b>NOTE :</b> <b>POLYGARD™ SLT 2091</b> should not be applied at floor temperatures below 15°C. Temperatures should not fall below 10°C in the 24 hours after application.			

## 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 EP816 epoxy scratch coat and allow to dry for a minimum of 6 hours.
- Apply Polygard EP816 epoxy grout coat and allow to dry for a minimum of 6 hours.
- Apply Polygard EP812 epoxy self-leveling base coat, thoroughly spike rolled to release trapped air and allow to dry for minimum of 6 hours.
- Apply Polygard PU913 Aliphatic polyurethane non-slip finish within 24hrs after applying base 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™ SLT 2091 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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