

# POLYGARD™ SLT 1090

1mm Self-leveling Epoxy with Polyester Polyurethane Smooth Finish.



## DESCRIPTION

1mm thick, medium duty, smooth self-leveling epoxy floor system with polyester polyurethane finish for use in areas exposed to extreme UV or sunlight.

## 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.
- Available in gloss, semi-gloss and matt finish.
- Suitable for areas exposed to UV and sunlight.

## TECHNICAL DATA

After 7 days cure @ 28°C

Compressive Strength.....**9000psi**  
(ASTM C-579) (67.6 MPa)

Tensile Strength.....**1800psi**  
(ASTM C-307) (11.4 MPa)

Flexural Strength.....**4400psi**  
(ASTM D-790) (29 MPa)

Hardness.....**84**  
(ASTM D-2240/Shore D)

Abrasion Resistance.....**0.1g** max wt. Loss  
(ASTM D-4060, CS-17 Wheel) @ 1000g loading

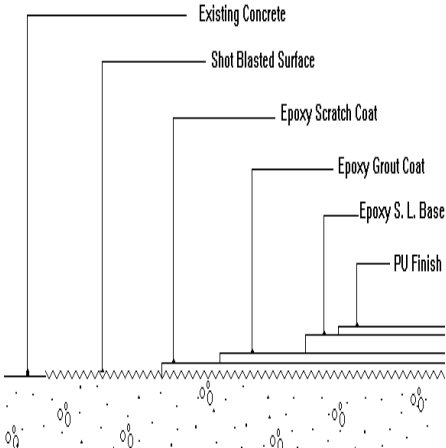
Bond Strength.....**>400psi**  
(ASTM D-4541) (100% concrete failure)

Flexural Modulus Of Elasticity.....**5.0 x 10<sup>6</sup>psi**  
(ASTM D-790)

Coefficient Of Expansion.....**5.3 x 10<sup>-5</sup>in/in°C**  
(ASTM E-831)

Temperature Resistance.....**60°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	
	Epoxy Scratch Coat	EP816 & Filler #4	
	Epoxy Grout Coat	EP816 & Filler #8	
	Epoxy Finishing Coat	EP812 & Filler #6	
	Polyurethane finish	PU921	
<b>NOTE :</b> <b>POLYGARD™ SLT 1090</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 PU921 polyester polyurethane finish.
- 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 1090 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**

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