

# POLYGARD® VSL 2100

2-ply CSM Reinforced Vinyl Ester Lining



## DESCRIPTION

2-ply chopped strand mat reinforced Vinyl Ester Lining.

## USES

Suitable for concrete floors, tanks, drains and sumps, in medium-duty applications in chemical processing plants, wafer fabrication plants, electronics and computer manufacturing plants, printing and packaging, pulp and paper mills and aircraft and aerospace industries.

## BENEFITS

- Excellent chemical resistance.
- Excellent impact resistance.
- Good tensile properties.

## TECHNICAL DATA

After 7 days cure @ 28°C

Compressive Strength.....**17,600psi**  
(ASTM C-579) (121.3 MPa)

Tensile Strength.....**12,800psi**  
(ASTM C-307) (88.3 MPa)

Flexural Strength.....**22,000psi**  
(ASTM C-580) (151.7 MPa)

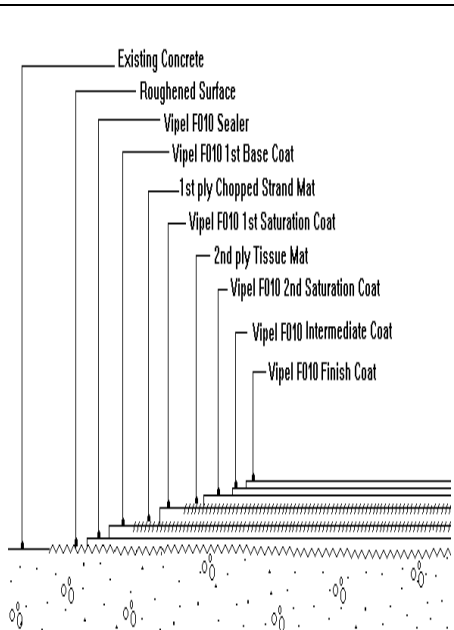
Barcol Hardness.....**39**

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 x 10<sup>5</sup>psi**  
(ASTM C-580)

Coefficient Of Thermal Expansion....**2.5 x 10<sup>-5</sup>cm/cm°C**  
(ASTM C-531)

SYSTEM STRUCTURE	PROCESS	PRODUCT/EQPT	DOSAGE
	Scarify	Grinder	Contact Us For More Details
	Primer	EP814	
	Base Coat	Vipel F010	
	1 <sup>st</sup> ply	300gms Chopped Strand Mat	
	1 <sup>st</sup> Saturation Coat	Vipel F010	
	2 <sup>nd</sup> ply	30gms Tissue mat	
	2 <sup>nd</sup> Saturation Coat	Vipel F010	
	Intermediate Coat	Vipel F010	
	Finishing Coat	Vipel F010	
	<p><u>NOTE :</u></p> <p><b>POLYGARD® VSL 2100</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 surfaces must be waterproofed and graded to specified levels and falls.
- Concrete surfaces shall be cured for minimum twenty-one (21) days.
- Chip off all cement droppings and cement overpours.
- Degrease oil/grease contaminants with industrial degreaser.
- Roughen surfaces to achieve suitable surface profile.
- Remove dust with industrial vacuum prior to application of coating.

### **APPLICATION PROCEDURES**

- Apply EP814 epoxy primer and allow to dry for a minimum of six (6) hours.
- Apply by roller Viprel F010 base coat and lay one (1) layer 300gm chopped strand mat.
- Apply by roller Viprel F010 first saturation coat and lay one (1) layer tissue matt.
- Apply by roller Viprel F010 second saturation coat and allow to dry for a minimum of six (6) hours.
- Apply by roller two (2) coats Viprel F010 finishing coats 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 polyesters, peroxides and styrene monomer. 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® VSL 2100 Lining 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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