

POLYSHIELDTM
WATER PROOFING SYSTEM



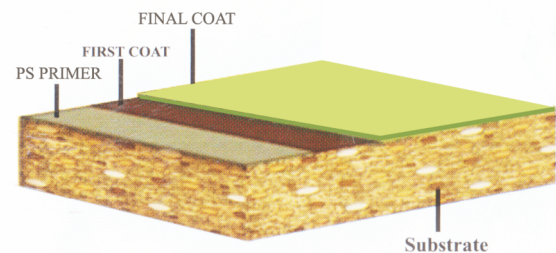
The permanent liquid
waterproofing system

SEAL FACE[®]
Speciality Coatings

DELIVERS LONG TERM RESTORATION ADHERSION, WATER PROOFING & UV RESISTANCE

POLY SHIELD is a two – part thermosetting formulation with the consistency of a heavy body coating to yield a high build finish on wall and floor surfaces. This is a tough and versatile finish that has been developed as the result of extensive laboratory evaluation and a field history of over 12 years.

When POLY SHIELD is applied, a seamless membrane is created on the roof, balcony, terrace, wet area or deck etc.. protecting the building structure reliably and on a long term basis, even under the most difficult condition.



HOW POLYSHIELD ENSURES ABSOLUTE PROTECTION FOR CONCRETED SURFACES -

- ▶ POLYSHIELD protective coatings prevent water coming in contact with concrete.
- ▶ POLYSHIELD coating bridges small cracks and is flexible enough to withstand a small amount of crack movement from thermal expansion and contraction of the concrete
- ▶ The right time to provide POLYSHIELD protection would be when the concrete is fresh. To be precise, before harsh chemicals like acids, salts and sulfates have a chance to get inside the concrete and cause damage.

Areas of application

- ① Garage Floor
- ② Balconies & Roof Garden
- ③ Wet area (under tiles)
- ④ Wet area wall
- ⑤ Roof & Terraces
- ⑥ Swimming Pools





LONG LASTING TOTAL SOLUTION FROM WATER SEEPAGE

Polyshield is tough resinous waterproofing system with extreme wear resistance and compressive strength. This system creates an ultra durable, UV resistant, flexible waterproofing system specifically developed for wet areas under tiles. This waterproof technology providing superior adhesion, crack bridging, abrasion resistance, UV stability, chemical resistance and 100% leak proofing.



Unprotected exposure of concrete paves way to cracks, spalls, leaks etc. Concrete surfaces could be subjected to wet-dry cycling, freeze-thaw cycling, chemical attack and abrasion. Even high quality concrete has a tendency to deteriorate under these harsh conditions. Once these problems develop, the deterioration of the concrete is accelerated because aggressive substances now have an unobstructed passageway into the concrete. For these reasons, it is wise to protect concrete, even good quality concrete, to increase durability.

POLYSHIELD is sure the first and logical answer to protect any type of exposed concrete as it has a proven success rate over 15 years.

COATING THAT PROVIDES 100% PROTECTION



Advantages

- ▶ Simple application
- ▶ Dense cross link during coating
- ▶ Forms a seamless membrane without joints or leak possibility
- ▶ Resistant to water
- ▶ Resistant to high temperature
- ▶ Crack bridging
- ▶ Uv resistant
- ▶ Maintenance of its mechanical properties over a temperature span of -10° to +120 °C
- ▶ Provides full surface adhesion
- ▶ Resistant to detergents, oils and common chemicals.
- ▶ Easy and fast local repair if the membrane is damaged
- ▶ No need to open flames during application
- ▶ Low cost

This product applied by brush or roller , upon curing, forms a tough, impervious, chemically & Water resistant surface over any sound substrate.

TECHNICAL DATA & METHOD OF APPLICATION

Description:

Polyshield is a high build two part thermosetting formulation, high quality liquid applied water proofing coating system, when applied as directed penetrates to the concrete surface and bridges leaks and minor imperfection, providing outstanding durability and offers long lasting protection.

Uses:

Roofs, Balconies & Terraces
Swimming Pools, Water Tanks
Roof Garden
Wet area (under Tiles) etc...

Drying time

Over coating interval with recommended topcoats

Temperature	touch dry	hard dry	Minimum	Maximum
590F (150C)	24 hours	7 days	2hours	*
770F (250C)	7hours	7days	2days	*
1040F(400C)	4hours	7days	2days	*

Technical Data:

State: Liquid

Colour : Various Colours

Auto ignition temperature : Not applicable

Flash Point oc : 85oc IS:1448(P-21)-1992

Vapour density : Heavier than air

Explosive properties: nil

Viscosity: 335 cp at 25 o C ASTM D4052

PRODUCT DATA

Parameters	Unit	Value
Adhesion Test	°c	88.9
Aquatic Influence	-	Insoluble in water
Water Penetration	%.	0.002
Climatic Condition Test (Salinity)	ppm	No change up to 3000ppm saline atmosphere
Lead	ppm	BDL*
Cadmium	ppm	BDL
Mercury	ppm	BDL
Hexavalent Chromium	ppm	BDL
Service temperature	°C	-40°C to +120 °c
Elongation at break	%	20.59
Finish	-	Smooth- semi glossy
Scratch hardness	-	Excellent
Film property	-	Flexible yet tough
Coverage	-	60-70 Sqft /Kg.

*BDL - Below Detection Level ,Minimum Detection Level – 0.1ppm

Recommendation for usage

Theoretical coverage:

Primer

- Coverage: 4m2 to 5m2 per kg (depending on the porosity of the surface)
- Drying Time: 4 to 6 hours

Polyshield

- Coverage: 5m2 to 6m2 per Kg(dependent on the porosity of the surface)
- Recommended Coats: 2 coat an interval of 2 hours
- Drying time: surface dry between coats 2 to 3 hours
- Touch dry: 7 hours

Adequate curing normally takes place within 24 hours, although full cure normally takes place in seven days.

TECHNICAL DATA & METHOD OF APPLICATION

SURFACE PREPARATION:

Surface must be clean and sound, free of chalk, loose masonry, peeling paint, form oils, mildew and bleeding stains. Glossy areas should be dulled. Unweathered area must be power washed or scrubbed with a detergent solution and rinse to remove surface salts that can interfere with adhesion. Cracks should be repaired with polyshield crack fill. fresh masonry has to be allowed to cure. New masonry should cure 30 days prior to coating. Care must be taken to remove all traces of laitance and form releasing agents from poured or precast concrete surface.

Method of Application:

1. Surfaces should be primed with Polyshield Primer.
2. Stir the Part A & Part B thoroughly. Mix Part A & Part B at the ratio 1 : 0.6 and stir for 3 minutes till a homogeneous mix is achieved. Mixed polyshield should be used within 30 minutes using a Brush or Roller. When applying avoid entrapping excessive quantities or else dripping may occur.

Thinning : Should not be thinned

Cleanup : All tools and equipment should be cleaned before the system gels. Use soapy water or acetone.

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Avoid breathing vapours of heated material.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Engineering measures: Ensure there is sufficient ventilation of the area.

Hand protection : Protective gloves.

Eye protection : Safety goggles.

Skin protection: Protective clothing with elasticized cuffs and closed neck. Boots made of PVC. Remove contaminated clothing no later than at the end of the work period and launder before reuse.

PRODUCT CHARACTERISTICS :

- Withstands ponded water
- Water proof
- UV resistant
- Crack bridging
- Chemical resistant
- Can be used in immersed service
- Anti rusting & Anti roofing
- Resists mold and mildew

Packaging: Is Available in Pack Size

Kit size	Part A	Part B
1.6kg	1kg	6kg
8 kg	5kg	3kg
40kg	25kg	15kg

Polyshield primer is a single component adhesion promoting polymer primer coating.

USE:

- Priming coat for concrete and dense mineral substrates
- Also be used as a primer on firmly adhering the coatings.
- Can be used as an adhesion promoter

COLOUR : Milky white liquid

PACKAGING : 10 Kg plastic pail

Polyshield Crackfill is used as a crack-bridging intermediate coat in combination with Polyshield coating. filler coat closes pores, cavities and blowholes.



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