

POLYSEAL WP

FLEXIBLE CEMENTITIOUS WATERPROOFING SYSTEM

DESCRIPTION

Polyseal WP is polymer modified cementitious waterproofing slurry. It is a mixture of Portland cement, quartz powder, polymer latex and other chemical constituents to provide excellent water tightness, excellent adhesion and outstanding flexibility.

RECOMMENDED USES

Polyseal WP can be used to fill, seal, waterproof and protect a variety of substrates including cast-in-place and precast concrete, light weight blocks, bricks and other masonry surfaces. It can be used for positive and negative side waterproofing, interior or exterior applications, below or above grade. The areas of application include water tanks, parking garages, basements, swimming pool, bridges, water treatment plants, tunnels, RC gutter, bathroom floors and retaining walls.

POLYSEAL WP has been tested by SIRIM QAS International Sdn. Bhd. in accordance to BS 6920 : Part 1 : 2000 (Suitability of Non-Metallic Product for Use in Contact with Water Intended for Human Consumption with regards to their effect on the Quality of the water)

OUTSTANDING FEATURES

- Easy to apply.
- Inexpensive waterproofing system.
- Good adhesion to sound substrates.
- Excellent flexibility.
- Increase resistance against water, salt and other harmful substances.
- Effective on moist surfaces.
- Effective for sealing cracks and hairline cracks.
- Non-flammable and non-corrosive.
- Stable against prolonged contact with standing water.

PHYSICAL DATA

Density	Approximately 2.0kg/litre
Consumption Rate	1kg/m ² /coat (Minimum 2-coats) Third coat at 1kg/m ² /coat for high water ingress area.
Nos of Components	Two(2) component - Part A (powder) - Part B (liquid)
Pot Life	30 minutes
Colour	Grey

APPLICATION METHOD

Surface Preparation : The substrate must be sound, clean and free from oil, grease laitance, dust or other surface contaminants. Chip, sand or abrasive blast or high pressure water jetting to remove all contaminants, dirt, dust, old paint, oil grease or other surface contaminants. If the substrate was previously painted, all the old existing paint must be removed completely. All shrinkage and non-moving structural crack shall be rectified by PU Injection Grouting and must be properly repaired prior to receive **Polyseal WP** waterproofing.

Pre-Wetting : The substrate must be completely dampened before the application of waterproofing materials. This will eliminate flash-setting of the applied coating.

Mixing : Pour the liquid component into a container of at least 25 litre volume. Mix by hand or using power mixer. To achieve good and homogeneous mixture, power mixer is recommended.

Application : **Polyseal WP** can be applied by spray, brush or broom. For the First coat, brush the materials into the surface, filling all pores and voids. Finish with light horizontal strokes. Applied materials shall be allowed to cure for at least 24 hours or overnight before applying the Second coat. The second coat shall be applied at right angle direction to the first coat

TECHNICAL DATA

Typical Properties	Standard	Unit	Test Result	
			Polyseal WP	OPC Coating
Tensile Strength	ASTM C-190	N/mm ²	4.5	2.0
Compressive Strength	ASTM C-190	N/mm ²	36.0	18.0
Bond Strength	ASTM C-321	N/mm ²	3.0	0.5
Abrasion Resistance	ASTM C-241	% Weight Loss	1.5	15.1
Impact Strength		Inch Pound	2.0	6.0
Water Absorption	ASTM C-140	% Absorption	1.8%	4.2%

PACKAGING AND STORAGE

Packaging	25kg set Part A (Powder) : 20kg Part B (Liquid) : 5kg
Storage	Store in a cool dry place. It must not be stored in open sunshine.