

# POLYSEAL

## POLYMER ELASTOMERIC CEMENTITIOUS WATERPROOFING SYSTEM

### DESCRIPTION

**Polyseal** is an approved modified waterproofing POLYMER with double reinforce cement. The reinforcement is incorporated with flexible synthetic resin polymeric micro compound cementitious waterproofing slurry. This helps to maintain the shape stability.

POLYSEAL LIQUID POLYMER ELASTOMERIC WATERPROOFING is high performance brush-on or spray-applied. **Polyseal** is an extremely durable resistant Acrylic Polymer modified that is specially formulated to provide water vapour permeability with very high resistance to re-emulsification when in long time contact with water. This modified waterproofing Polymer bond tenaciously to most substrates.

### TYPICAL USES

**Polyseal** is specially formulated for the waterproofing on R.C Roof, Basement, Tunnels, Concrete Tanks, Reservoirs, Floor Slabs, Swimming Pool, R.C Gutters, Foundation Walls, Bridges, Bathroom Floors, Terraces, Planter Boxes and Balconies.

### OUTSTANDING FEATURES

- Non-toxicity requirement especially for potable water.
- Positive barrier to water and vapour.
- Non-corrosive to steel for ferrous metal.
- Resistance to hydrostatic pressure up to 40m head of water.
- Excellent resistance to atmospheric agents.
- Maintains shape stability at high temperatures.
- High resistance to traffic and site abuse.
- No re-emulsification in water.
- Superb adhesion.
- Sealing non-movement fine crack or porous of all masonry.
- Easy to apply in tight areas such as corners and penetrations.

**POLYSEAL** 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)

### TECHNICAL DATA

Typical Properties		Test Result
1	Polymer modified	Polychloroprene Rubber
2	Residue by evaporation	60% (nominal)
3	Specified gravity	1.0
4	Flammability	Non-Flammable when wet
5	Drying time (Firm set)	Less than 24 hours at RH < 85%
6	Heat Resistance	At ambient temperature > 25°C
7	Softening point of dried film	No flow, sag or blistering at 100°C
8	Flexibility at 0°C	90% (minimum)
9	Service temperature range	11g / m <sup>2</sup> / 24 hours*
10	Recovery	No blistering or re-emulsification in water
11	Water Absorption	0.10%

### APPLICATION METHOD

The application process of **Polyseal** is very easy and swift. **Polyseal** can be applied on the positive and on the negative side of the building or structure. Apply the First Coat of **Polyseal**, subsequently after 3-5 hours apply the Second Coat of **Polyseal** in Wet to Wet system on vertical and horizontal applicatio

## COVERAGE

Application Areas	Coverage
Bathrooms, terraces and balconies	1 kg/m <sup>2</sup> per coat. Minimum (2)-Coats
1m water head	1 kg/m <sup>2</sup> per coat. Minimum (2)-Coats
Exceeding 1m water head and above	1 kg/m <sup>2</sup> per coat. Minimum (3)-Coats
As Protective Coating	1 kg/m <sup>2</sup> per coat. Minimum (3)-Coats

## SURFACE PREPARATION

- a) The substrate must be structurally sound, free from all traces of contaminants, loose and friable particles, cement laitances, sharp edges, oil and grease before **Polyseal** waterproofing application.
- b) All shrinkage and non-moving structural crack shall be rectified by PU Injection Grouting and must be properly repaired prior to receive **Polyseal** waterproofing.
- c) The applied waterproofing should be kept damp with mist spray if the weather is exceptionally hot and dry or cover with shed to avoid accelerated drying.
- d) Apply the right quantity of Polymer modified onto the surface to be waterproofed prior to receive **Polyseal** waterproofing.  
[ This Polymer modified application is only applicable to Vertical Wall area exceeding 1m height ]

## LIMITATIONS

- a) Do not apply in rain frost as it is imminent. **Polyseal** becomes fully resistant to rain and frost once cured.
- b) Dead Flat Roofs invariably collect puddles. To ensure trouble free curing, carry out work in dry weather.
- c) **Polyseal** Elastomeric Acrylic Polymer modified is resistant to medium foot traffic.

## PACKAGING AND STORAGE

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