

## Two-Part Acrylic Cementitious, Flexible, Waterproof Coating

# PolyFlex

**PolyCem**<sup>®</sup>  
engineered cements

### Description

**PolyFlex** is two-part acrylic modified cementitious coating mixed at site or easy application.

### Features

- Excellent performance and flexible in nature
- Good adhesion to most surfaces
- Non toxic, therefore suitable for potable water
- Resistant to positive or negative pressure
- Resistant to carbon dioxide and chloride diffusion forms a film that provides an anti carbonation coating over concrete

### Uses

- Pile head waterproofing.
- Waterproofing of potable water reservoirs, both interior and exterior.
- To provide protection for concrete against carbonation and chloride attack.
- Waterproof coating for roofs and tunnels
- Concrete water tanks, lift well inspection pits
- For swimming pools, lift well, spillways bathroom slabs, kitchen slabs and other areas.
- Waterproof lining or water retaining structures
- Waterproof background mortar for tiles, mosaic and marble
- General construction waterproofing.

### Colour

Available in grey, white and other colours on request



### Standards

BS -1881 part 5 1993 – ISAT / BS -476 part 6  
DIN – 1048, BS – 6920

### Technical Properties

Flexibility of film 1.5 mm thick	30%
% Elongation	>5% (unbonded).
Drying time (30)	1-3 hours
Foot trafficable	4-5 hours
Ponding	48 hours

### Chemical Resistance

(ASTM D543: 1995)

Resistant to following

Chemicals, solvent & oils

Sodium Hydroxide (1%)	Engine oil
Ethyl Alcohol (95 %)	Diesel
Methyl Alcohol	Kerosene
Hydraulic oil	Linseed oil

### Tensile Strength

ASTM D412: 92 > 1.5 N/mm<sup>2</sup>

Suitability for use with

Potable water tank

BS 6920 Part 1: 1990 Suitable

Specific Gravity 1.8

Toxicity Non-toxic

Water penetration: Nil.

(DIN – 1048) Parts 1991

Co2 Diffusivity	R > 357 m
resistance dft)	SC > 89 m (1mm SC – equivalent Concrete thickness
Chloride iron Diffusivity	Zero penetration At 90 days
Chloride iron Diffusivity	1.04 x 10 <sup>-7</sup> cm <sup>2</sup> /s
Water Vapour transmission	< 25 gm/m <sup>2</sup> /24 hours

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### Application

The surface must be clean and free of oil, grease, dust and any other unwanted residual material. The surface to be treated should be thoroughly wet prior to application. The material is supplied in two parts, and premeasured. On site mixing is needed. Slowly add the powder to the liquid and mix using a slow speed drill fitted with a suitable paddle. Do not mix more material than that can be used within 45 minutes. The appearance of the material will be creamy and of uniform consistency. Apply the first coat using sufficient material to cover the holes, cracks etc; completely at rate of 1 kg/m<sup>2</sup>. Once the first coat is dry apply second and third coat in order to achieve the required thickness at an average rate of 0.75 -1 kg/m<sup>2</sup> for best results embed polymath into the first coat and apply the second coat on top of it.

### Cleaning

Clean all the tools water

### Storage & Packaging

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air- conditioned environment. Shelf life is up to 12 months when stored as per recommendations. Available in 20 kg kits. Contain parts. Part A – 15 kg powder: part B – 5 kg liquid.

### Health and safety

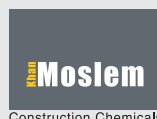
As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

### Legal Notes

The information provided in this data sheet, are given in good faith based on our current knowledge and experience of the product when properly stored, and applied by professional applicator, and under normal conditions in accordance with the mentioned recommendations. In practice under actual site condition differences are such that no warranty can be issued nor any liability can be taken, arising out of any legal relationship whatsoever. The product must be tested onsite to check its suitability for the intended application and purpose



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