

PolyFlex LL

Description

PolyFlex LL is a cementitious acrylic modified waterproofing coating, with excellent adhesion to concrete, plaster and masonry. **PolyFlex LL** dries to a flexible, seamless waterproofer. It can be used for waterproofing and protecting concrete structures, foundations, retaining walls and bridge abutments. It can also be used on roofs, walls and floors to prevent water ingress and dampness from the ground.

Key Features

- Low viscosity for penetration and surface treatment
- Excellent adhesion to moist building substrates
- High resistance to aggressive chemicals and salts.
- Fast curing
- High coverage rate
- Seamless, joint free
- Dual advantage of curing as well as protection of concrete.
- Water based, non-toxic.

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
- Waterproofing of water retaining structure, concrete water tanks, swimming pools, lift well, spillways bathroom slabs, kitchen slabs and other areas
- General construction waterproofing.

Technical Properties

Tensile Strength	> 1.5 N/mm ²
Chloride ion Diffusivity	: Zero penetration
Specific Gravity	: 1.8
Toxicity	: Non-toxic
Flexibility of film	: 20% (1.5 mm thick)
Elongation	: >5% (unbonded).
Drying time	: 1-3 hours
Foot trafficable	: 4-5 hours
Ponding	: 48 hours

Specifications

DIN 1048 Parts 1991

Water penetration: Nil

BS 6920 Part 1: 1990

Suitable for use with potable water tank

ASTM D412: 92

Application Instructions

Surface Preparation: All surfaces must be free from oil, dirt, dust and loose debris. **PolyFlex LL** can be applied to damp water surfaces. Porous and hot dry surfaces should be dampened with clean cold water to assist the application of the product.

Application: **PolyFlex LL** is supplied in premeasured two parts. 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 completely at rate of **1 kg/m²**. 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/m²** for best results embed **PolyMesh** into the first coat and apply the second, and third coat on top of it.

Storage & Packing

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Available in 5 kg & 20 kg kit.

Shelf Life

Shelf life is up to 12 months when stored as per recommendations.

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.

Acrylic Flexible WaterProofing Coating

PolyFlex LL

PolyCem

▶ engineered cements



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

PolyBit


HardStep
▶ concept engineered floorings

PolyCem
▶ engineered cements

FlexSeal

PolyInCrete
▶ tailored concrete

▶ bitumen solutions
BituShield

 **Office** :39 Makram Ebied , Nasr City , Cairo

 **Factory** : Block 7/4 Arab Engineer Industrial Area , Cairo

www.polybit.co