

Dr. Fixit Polyplus CP



SURFACE APPLIED CONCRETE WATERPROOFING TREATMENT

Description

Dr. Fixit Polyplus CP is composed of cement, graded aggregates and proprietary reactive agents and additives. It is used as a surface applied, permanently active waterproofing treatment for concrete. The active ingredients when activated by contact with penetrating water, form crystals which penetrate deep within the concrete matrix blocking pores, voids and cracks, effectively sealing against water ingress.

Typical Applications

Water Retaining Structures

- Water tanks and swimming pools.
- Reservoirs, dams and canals.
- Sewerage and water treatment works.
- Concrete pipes.

Water Excluding Structures

- Foundations and shallow basements.
- Tunnels and subways.
- Inspection pits and lift shafts.
- Retaining walls, jetties and sea defences.

Features

- Replaces ineffective waterproofing membrane.
- Becomes an integral part of the concrete structure.
- Remains permanently active.
- Seals shrinkage cracks up to 0.4 mm width.
- Resists positive and negative water pressure.
- Reduced chloride permeability.
- Treated concrete can withstand hydrostatic water pressure up to 150 metre head.
- Single pack requiring only the addition of water on site.
- Non-toxic and suitable in potable water containment.
- Protects steel reinforcement against corrosion.
- Improved chemical resistance.

Packaging

20 kg bags

Method of Application

Note; for more detailed and project-specific application information consult the Polyplus CP method statement.

1 SURFACE PREPARATION

- In all environments, remove laitance, loose and damaged concrete, existing coatings and any contaminants which may impair the penetration of the active ingredients. Provide an open pore structure by means of mechanical grinding, sand blasting, pressure water cleaning or other suitable mechanical means.
- Thoroughly rinse the surface with water several times to provide a "saturated surface dry" (SSD) condition, where the surface should be damp without any standing water.

2 SLURRY APPLICATION TO NEW OR EXISTING DAMP SUBSTRATES

- Make good all damaged surfaces using Polyplus CP powder mixed to a putty consistency in the ratio, 5 parts powder to 1 part water.

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- Prepare slurry by mixing Polyplus CP in the ratio 5 parts powder to 2 parts water and apply using a clean brush to the substrate in SSD condition using an aggressive circular motion to ensure the material is worked in.
- Apply a second coat after 3-6 hours.
- Allow to cure for 2-3 days whilst protecting from direct sunlight and wind to prevent premature drying. Allow 28 days for full cure.

3 CONSTRUCTION JOINTS

- Apply Polyplus CP in dry shake or slurry consistency at 1.7 kg per m² immediately prior to next placing of concrete.

4 BLINDING CONCRETE

- Apply Polyplus CP in dry shake or slurry consistency at 1.4 kg per m² to the base slab and allow to harden sufficiently to allow foot traffic. Apply the topping slab before Polyplus CP achieves full cure.

5 HORIZONTAL CONCRETE SURFACES

- Apply Polyplus CP to the surface of freshly placed concrete at 1 kg per m² by use of a manual or mechanical spreader after the concrete has been placed consolidated and levelled. Work the powder into the surface of the wet slab during the normal manual or power finishing process.

Note:

- Heavy traffic of floors should be avoided for 14-21 days after application
- Subsequent coatings should only be applied after 28 days.
- Not recommended as the primary waterproofing system over moving joints and structures subject to movement, such as roofs.
- Do not apply on dry substrates.
- Water tanks etc. can be filled with water after 3 to 7 days.
- After complete curing of Dr. Fixit Polyplus CP, potable water tanks should be thoroughly rinsed with potable water prior to service.

Technical Information

Control Specimen (Without surface coating)				Test Specimen (With surface coating Polyplus CP)		
Specimen ID	1	2	3	4	5	6
Maximum depth of Water penetration (mm)	8	9	7	Nil	Nil	Nil
Mean minimum depth of Water penetration (mm)	8			Nil		

Theoretical Coverage

Dependent on substrate; consult project method statement.

Storage

When stored in dry conditions in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C and high humidity (above 50%) will reduce shelf life and product performance.



Health and Safety

This products contains cement. And contact with skin may cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing the powder. Avoid contact with the product by working carefully, using a barrier cream and wearing protective gloves. If any contact does occur, wash thoroughly with soap and water. Use eye protection. Avoid contact with eyes, if such contact occurs irrigate with water for 20 minutes and seek medical advice. If mistakenly ingested, drink plenty of clean water and seek medical advice. See MSDS for further information.

Pidilite MEA Chemicals L.L.C offers a wide range of Structural Protection and Waterproofing systems:



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