



Polyplus CP
Crystalline waterproofing technology



Method of Application of Dr. Fixit Polyplus CP

- Dr. Dr. Fixit Polyplus CP Admix is a dry powder added directly to the mortar during mixing.
- For smaller mixes, add Dr. Fixit Polyplus CP Admix to the sand and coarse aggregates. Mix the components thoroughly for 2-3 minutes before adding cement and water. The total concrete mass should be blended using standard practices.
- For larger RMC/Plant mixes, refer to Pidilite Technical Team
- Place and cure concrete as per standard practice. In most cases 7 days of water curing is recommended. Curing membranes as per ASTM C-309 or ASTM C-1315 may be used.

DRY SHAKE APPLICATION: ON FRESH CONCRETE IN FLOORS, SLABS AND HORIZONTAL SURFACES

- Dr. Fixit Polyplus CP powder compound may be sprinkled onto the surface of wet concrete using a manual or mechanical spreader, sieve or similar device after concrete is placed, consolidated, and levelled.
- The powder is then worked into the surface of the slab during normal finishing process with a trowel.
- If application or power float is carried out in direct sunlight, it is extremely important to cover the slab after final trowelling with a rigid sheet of polythene, taking care to ensure the sheet is not in contact with the surface of the slab. This can be done by placing

the sheet on bricks to ensure a gap between the slab and the sheet to allow air circulation.

- Remove the sheet after 48 to 72 hours and water pond the treated area to cure regularly.

SLURRY APPLICATION: ON EXISTING OR OLD DAMP SUBSTRATES

- Ensure thorough surface preparation by mechanical means, to remove all laitance and contamination, exposing the pores in the concrete to allow penetration of Dr. Fixit Polyplus CP.
- All cracks and holes in the concrete should be filled with Dr. Fixit Polyplus CP powder mixed with water to a putty consistency.
- For slurry application brush apply Dr. Fixit Polyplus CP. Apply a second coat after 3 to 6 hours.
- Dr. Fixit Polyplus CP treated surface should be left to cure for 2-3 days and protected from direct sunlight for this initial period. Full cure will be achieved after 28 days.

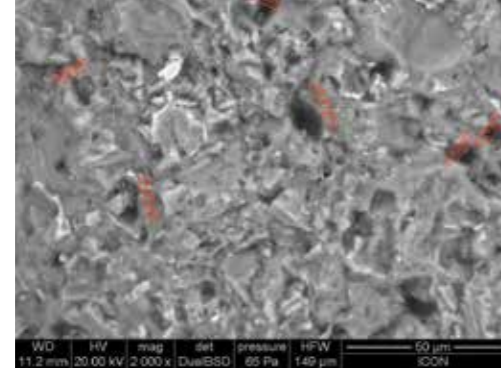
DRY SHAKE OR SLURRY APPLICATION FOR CONSTRUCTION JOINTS

- Dr. Fixit Polyplus CP should be applied in dry shake or slurry consistency immediately prior to next placing of concrete.

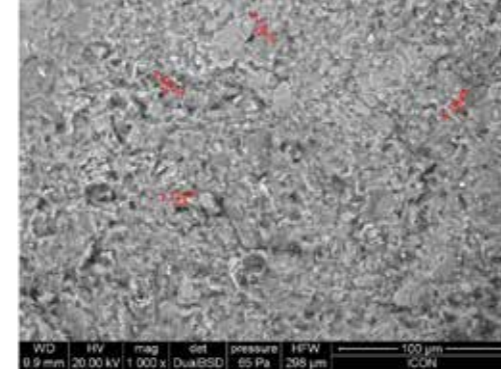
DRY SHAKE OR SLURRY APPLICATION FOR BLINDING CONCRETE

- Apply Dr. Fixit Polyplus CP in dry shake or slurry consistency. Apply the topping slab after the Dr. Fixit Polyplus CP has initially hardened but while still curing.

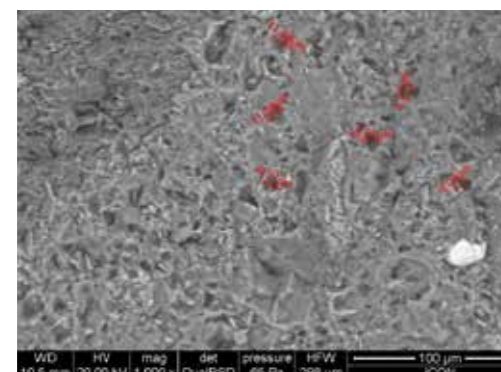
Scanning microscope images



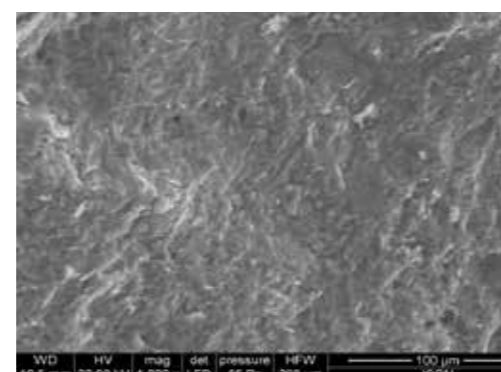
Control concrete, 14 days



With Dr. Fixit Polyplus CP Admix, 14 Days



Control concrete, 28 Days



With Dr. Fixit Polyplus CP Admix, 28 Days



WATERPROOFING



CONCRETE & STRUCTURAL REPAIR



CRACKFILL & SEALANTS



BONDING AGENTS



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GROUTS & ANCHORS



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SYSTEM SOLUTIONS FOR BUILDING PERFORMANCE

Description

Dr. Fixit Polyplus CP is a chemically active waterproofing treatment for concrete composed of high quality cement, graded inert aggregates together with permanently active chemicals and additives. Dr. Fixit Polyplus CP when mixed with water and applied as a brush coat or added to concrete as an admixture, becomes part of the capillary structure of the concrete forming billions of needle like crystals which block pores, voids and micro cracks in concrete.

Dr. Fixit Polyplus CP System

Dr. Fixit Polyplus CP is a dry powder which can be applied as a shake on system or when mixed with water makes a slurry or spray.

Dr. Fixit Polyplus CP Admix is an additive incorporated at the batching plant or transit mixer to provide complete integral waterproofing.

Areas of Application

- Drinking water storage tanks
- Bathrooms
- Elevator shafts
- Under ground vaults
- Any concrete structure
- Base slabs
- STP & WTP
- Retaining walls
- Foundations
- Basements

Standard Compliance / Specification

- Meets the requirement of ASTM C- 494

How Dr. Fixit Polyplus CP works?

- Dr. Fixit Polyplus CP contains active waterproofing chemicals which react with the natural chemical

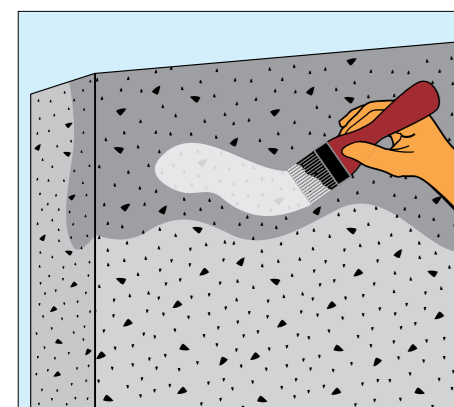
by-products of cement hydration, such as calcium hydroxide, various mineral oxides together with hydrated and unhydrated cement particles in wet concrete. This results in the formation of billions of needle-like non-soluble crystals which block pores, capillaries, voids and micro-cracks in concrete. Dr. Fixit Polyplus CP remains permanently active.

- Dr. Fixit Polyplus CP penetrates even against strong hydrostatic pressure, becoming an integral part of the concrete. The waterproofing chemicals remain active for the life of the structure, permanently protecting it from water seepage.

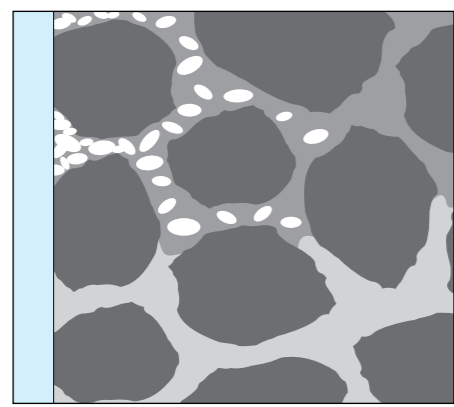
Features & Benefits

Becomes an integral part of the structure to seal against water ingress.

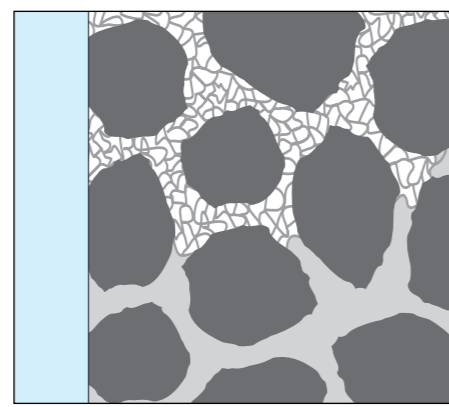
- Protects reinforcing steel against corrosion.
- Waterproofs minor cracks & seals shrinkage cracks up to 0.4 mm wide.
- Resists water from internal and external sources.
- Waterproofing capability remains permanently active.
- Is not affected by surface wear or abrasion, once penetration is completed.
- Non toxic.
- Treated concrete withstands hydrostatic water pressure up to 150 metre head.
- Easily applied.
- Allows concrete to breathe.
- Forms monolithic layer with the concrete which cannot be punctured or torn.



Application of Dr. Fixit Polyplus CP Coating



Dr. Fixit Polyplus CP penetrates deeply inside concrete mass and starts blocking capillary channels



Crystallization process starts which forms insoluble crystals hence blocks capillary channels permanently

Typical Applications

The details shown below are graphic representation of actual details available from our Technical department.

