

Dr. Fixit Hydrocem Super



POLYMER MODIFIED CEMENTITIOUS COATING

Description

Dr. Fixit Hydrocem Super is a two component cementitious coating, composed of high quality cement selected & graded fillers, additives and acrylic polymer. It is suitable for achieving waterproofing for roofs, because it provides strong bonding, good waterproofing and excellent resistant to hydrostatic water pressure by forming highly elastic seamless coating over the applied concrete surfaces.

Areas of Application

Waterproofing of flat Concrete roofs, wet areas, balconies, kitchen and water bodies like water tanks and swimming pools.

Features & Benefits

- Water proofing - Tough film buildup provides excellent waterproofing.
- Elasticity - Highly elastic film formation which accommodates thermal movements.
- High film built-up - withstand 5 bar hydrostatic pressure without any leakages.
- Bonding - Excellent adhesion to concrete and masonry substrates hence longer life.
- Seamless coating - Forms seamless coating without any joints, prevents water leakage.
- Non-toxic - Low VOC
- Ease of application - Easily applied by brush.

Method of Application

1 SURFACE PREPARATION

- Surface should be sound, clean and free from dirt, oil and other loose material.
- Concrete surfaces should be fully cured (minimum 28 days) prior to application.
- All surface cracks, undulations and voids must be repaired appropriately before application.
- Surface must be in SSD condition prior to application

2 MIXING

- Use slow speed mechanical mixer, add powder component slowly to the polymer in a clean container.
- Stir till smooth and homogeneous slurry, without any lumps, is achieved.
- Allow the mixed slurry to stand for 5-10 minutes for releasing entrapped air during mixing.

3 APPLICATION

- Do not dilute with water. It is important that any pipe inserts or sanitary fittings should have been fitted grouted with suitable products from the Dr. Fixit range well before taking up the application.
- Apply Hydrocem Super slurry by brush within the pot life of 40-45 mins
- Allow the 1st coat to dry completely for 6-8 hrs before applying 2nd coat.
- Apply 2nd coat in perpendicular direction to the 1st coat
- Air cure the coating for atleast 3-5 days. Water cure the coating by placing moist hessian cloth, if the coating is exposed to direct sunlight.
- For vertical walls in bathroom ensure internal plaster is sound, levelled and mixed with Dr. Fixit Pidiproof LW+, Apply 2 coats of Dr. Fixit Hydrocem Super on all over or shower area, and upon curing apply a spatter dash bond coat, this will provide key for subsequent plaster or tile adhesive.
- Carry out pond test post curing of final coat and prior to covering the coating with a screed.

4 WATER PONDING TEST:

- After full curing of second coat for at least 3-5 days, a water ponding test can be performed by filling water on the terrace by carefully blocking all the down take drain outlets without damaging the coating. The test



shall be carried out for 48 hrs by filling water up to 50 mm level. Observe for leakages if any and then remove the water and allow the coating to dry completely.

4 WATERPROOFING OF ROOF AND WATERTANKS:

- General waterproofing if applied in areas exposed to foot traffic must be protected with a screed overlaid, during the application itself.
- When coating for internal walls of water tanks, apply a spatter dash bond coat. This will facilitate anchoring for subsequent plaster. .

WATERPROOFING OF SWIMMING POOLS:

- Apply Dr. Fixit Hydrocem Super in 3 coats with each coat perpendicular direction to previous applied at the 6-8 hours interval at 3Kg/m² coverage.
- Extend the coating up to the full height of internal RCC walls. While the third coat is still wet and tacky sprinkle/ broadcast coarse sand over the surface to make it rough to provide mechanical key for plastering.

Precautions & Limitations

- Do not part mix. Mix the entire quantity of both the components at one go.
- Do not dilute.
- Always add powder to liquid to avoid lump formation.
- Do not cure by flooding with water.
- Dr. Fixit Hydrocem Super needs atleast 3-5 days days for air curing. Water cure the coating by placing moist hessian cloth, if the coating is exposed to direct sunlight.
- Do not conduct any ponding test before it is completely cured for 3-5 days
- Always protect the membrane with screed in areas exposed to foot and other traffic.
- Concrete surfaces must be cured for 28 days before application.
- Additionally, for Bathrooms/Wet areas etc. The waterproofing coating should be done on levelled surface. For the application over brick/block/RCC walls, refer detailed application methodology..

Technical Information

PROPERTIES	TEST METHOD	RESULTS
Nature & Mixing ratio	...	2 component cementitious coating (1 part polymer & 1.4 part powder)
pH of the mix	...	>10.0
Pot life of the mix @30°C	...	60 minutes
Touch Dry Time	ASTM D 1640:2018	50 minutes
Inter coat application time	...	6-8 hrs
Cure time after 2 nd coat	...	3-5 days
PROPERTIES	TEST METHOD	RESULTS
Elongation at break	ASTM D 412:2016	120% minimum
Tensile Strength	ASTM D 412:2016	1.2 N/mm ²
Water Vapour Transmission	ASTM E 96:2016	0.7 Perms
Adhesion strength	ASTM D 7234:2019	1.0 N/mm ²
Water Permeability	EN 12390-8:2019	Passes 5 bar positive water pressure



Reduction in Rapid Chloride, %	ASTM C 1202:2019	70
Food grade certification	CFTRI certification	Passes
Crack Bridging Ability	EN 1062 - 7 : 2004 (Method A*)	A3#

#width of the crack bridged >500µm

* Tested under room temperature for one cycle:

Note: Technical Data is based on laboratory tests under controlled conditions. Actual performance may vary due to substrate, environment, application method, and equipment accuracy.

Theoretical Coverage*

The approximate coverage per pack at even consistency (DFT of 1.2-1.5 mm thickness) is as follows:

SKU	COVERAGE
20 kg polymer + 28 kg Powder	20-24 m ²

*Coverage may vary depending upon the nature and texture of the substrate

Sprayable using rotor-stator, rotoflex, or low-pressure piston pumps. For equipment guidance, contact our technical team.

Packing

48 Kg (28 kg powder+ 20 kg polymer)

Shelf Life & Storage

- Shelf life is 12 months from the date of manufacturing if stored in original and unopened packaging in a cool dry place between 5°C and 30°C. The product should be protected from frost, sources of heat and away from direct sunlight.

Health & Safety Precautions

- This product is a water-based emulsion of non-hazardous polymer. It is non-flammable and essentially non-toxic. Normal industrial hygiene procedures should be adhered, and it is recommended that gloves and eye protection be worn. In case of skin or eye contact thoroughly irrigate with water and seek medical advice if any irritation develops or persists. In the case of accidental ingestion, wash mouth out with water and seek medical attention. Spillages should be cleaned up immediately with water as they will leave a film on evaporation. See MSDS for further information.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



Pidilite Industries Limited
Construction Chemicals Division
Ramkrishna Mandir Road, Post Box No. 17411
Andheri (E) Mumbai 400059 INDIA
Tel +91-22-2835 7000 • Fax +91-22-2835 7008
www.drfixit.co.in • info.drfixit@pidilite.com
Dr. Fixit Advice Centre (Toll Free No.) 1800 209 5504

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