



## ACRYIC CEMENTITIOUS WATERPROOFING COATING

### Description

Dr. Fixit Hydrocem is an acrylic cementitious, polymer modified elastomeric, waterproofing & protective coating composed of best quality Portland cement, properly selected & graded aggregates, additives & acrylic emulsion polymer as a binder. It is applied to waterproof and protect concrete and masonry substrates.

### Areas of Application

Hydrocem must be applied to new or old concrete substrates that are structurally sound.

- Excellent as a waterproof coating for bathrooms, kitchen sinks, balconies, etc.
- Ideal as a coating for waterproofing of chhajjas, canopies, etc.
- As waterproof coating on internal sides of domestic water tanks.
- Good for waterproofing of sloped roofs.

### Features & Benefits

- Elastomeric - flexible coating that accommodate cracks with an elongation up to 50%
- Low water permeability - Excellent resistance to ingress of water
- Adhesion - Excellent adhesion to concrete and masonry surfaces
- Eco-friendly - Non-toxic with low VOC content
- CFTRI certified - As a "potable water safe" coating for waterproofing for water tanks

### Method of Application

---

#### 1 SURFACE PREPARATION

- The surface of application must be thoroughly prepared by mechanical means, to remove all loose particles, laitance, etc
- Oil and grease, if any, must be de-greased with suitable solvents. It then must be washed off with jet of water and brought to touch dry state. Any surface undulations, cracks and crevices must be duly filled or repaired with cement sand mortar mixed with latex polymers such as Dr. Fixit Pidicrete URP/ Dr. Fixit Pidicrete MPB.
- All vertical up-stands & junctions /corners are provided with 45° fillet with Polymer Modified Mortar (PMM), mixed with Dr. Fixit Pidicrete URP all around the periphery of the junction.
- Substrate must be in a "Saturated Surface Dry" (SSD) condition (damp, without standing water) prior to application.

---

#### 2 MIXING

- Shake the liquid component well to a homogenous milky colour.
- Use heavy duty slow speed mechanical mixer fitted with a suitable paddle for mixing the two components of the material.
- In a mixing vessel, slowly add the powder component in to the liquid under continuous stirring. Continue to stir thoroughly to achieve a lump free homogenous slurry

---

#### 3 APPLICATION

- 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.
- It is mandatory that all works of plumbing and sanitation must be complete before taking up application of Hydrocem.
- The surface of application must be pre-wetted thoroughly with water & brought to a touch dry state. Take up the first coat application with a stiff nylon brush. Work well into the substrate, to ensure that all small undulations are completely filled with the coating.
- Provide and lay 45 GSM glass fibre mesh over the angle fillet when the first coat is still wet.



- 6 to 8 hrs after completion of first coat, take up second coat application in a direction perpendicular to the first
- coated surface to protect it from the effect of direct sunlight, in case of bathrooms and internal areas, leave the coating for air curing for 3-5 days at least.
- In new bathrooms, typically, Dr. Fixit Hydrocem must be applied all over the sunken slab portion and upwards over the masonry walls up to a height of 6-7 feet, i.e. Over the splash zone of shower, etc. to ensure complete waterproofing.
- For vertical walls in bathroom ensure internal plaster with Dr. Fixit Pidiproof LW+, Apply 2 coats of Dr. Fixit Hydrocem on all over and upon curing apply a spatter dash bond coat, this will provide key for subsequent plaster or tile adhesive.

#### 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 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 7 days
- Always protect the membrane with screed in areas exposed to foot and other traffic.
- 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 & 2 part powder)
pH of the mix	...	>10.0
Pot life of the mix @30°C	...	40 minutes
Touch Dry Time	ASTM D 1640:2018	60 minutes
Elongation at break	ASTM D 412:2016	50% minimum
Water Permeability	EN 12390-8:2019	Passes 5 bar positive water pressure
Food grade certification	CFTRI certification	Passes
Crack Bridging Ability	EN 1062 - 7 : 2004 (Method A*)	A2#

width of the crack bridged >250µm\*

#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 mm thickness) is as follows:

SKU	COVERAGE
30 kg polymer +60 kg Powder	49.5-52 m <sup>2</sup>

\*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

90 kg (Powder 60 kg & Liquid 30 kg)

### 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

**DISCLAIMER** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.