



# Dr. Fixit Powercrete

A POWERFUL COATING SYSTEM FOR WATERPROOFING AND REPAIRS

## Description

An acrylic polymer based economical elastomeric waterproofing system for protecting concrete & masonry surfaces.

## Areas of Application

Concrete structures like sunken portion, toilets, balcony, basement, chajjahs, terrace, concrete repairs and water retaining structures.

## Features & Benefits

- A tough, hard wearing, breathable waterproofing system for residential, industrial, housing and commercial buildings.
- Can be applied in uniform thickness to horizontal and vertical surfaces.
- Excellent bond to most building materials.
- Reduces or prevents salt penetration into concrete.
- High ultra violet resistance.
- Highly durable.
- Economical system.
- Is non-flammable and does not give off toxic gases, when exposed to fire.

## Method of Application

### 1. For waterproofing

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#### SURFACE PREPARATION

- Prior to application of Dr. Fixit Powercrete, ensure to clean the substrate which should be free from all the dust, foreign particles, loose aggregate and oil grease etc. This can be done with the help of scarifying, grinding, water jetting and sand blasting etc.
- The surface should be wetted, well prior to application, thoroughly with water to get SSD condition.
- All the depression or pin holes /pot holes to be repaired using Dr. Fixit Powercrete modified mortar in mixing ratio of ( 1 kg cement : 1.50 kg silica sand : 0.50 kg of Dr. Fixit Powercrete )

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#### COATING APPLICATION

- Mix Cement with Dr. Fixit Powercrete in ratio of 1 : 0.50 ( 1 kg cement OPC53 : 0.50 Dr. Fixit Powercrete ) by weight.
- The mix should be stirred thoroughly until smooth homogeneous paste is obtained.
- Apply first coat over SSD/wet condition substrate.
- Apply and unroll woven glass fibre cloth evenly on the wet coating before it dries out on larger areas.
- Using a nylon brush, apply one coat of Dr. Fixit Powercrete coating over the glass fabric so as to cover the fabric, allow 5-6 hours of air drying before application of another coat of Dr. Fixit Powercrete slurry coating over the surface.
- Provide polymer modified protective plaster of 15-20 mm thick over the coating to ensure safety from mechanical damage.

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#### CURING

- Allow Dr. Fixit Powercrete coating to air cure for 3-6 hours after the final coat.
- Do not allow the rapid drying of the coating by covering the coating with help of polythene sheet in case of high humidity and windy condition.
- However, a moist curing after the air drying is advisable.
- Following the moist curing, Dr. Fixit Powercrete coating shall be allowed to air cured for 3 days before submerging it in water.



## Precaution

- Dr. Fixit Powercrete should not be used in isolation of cement.
- Dr. Fixit Powercrete shall be applied to the substrate temp above 10°C to below 40°C
- Ensure to provide a protective plaster over the final coat to avoid mechanical damage.

Description	Dr. Fixit Powercrete	Slurry	Dr. Fixit Powercrete brush topping
	Single coat ( 1:2) ( Powercrete : cement )	Two coat	1.20 mm/m <sup>2</sup>
	Qty in kg	Qty in kg	Qty in kg
Dr.Fixit Powercrete	0.25	0.375	0.65
Cement	0.50	0.750	1.30
Fine silica sand	-	-	1.29

## 2. For Repair works

- Modified mortars : All the repair mortar modified with Dr. Fixit Powercrete shall be used for all renovation works in concrete substrate.
- Add 10-15% of Dr. Fixit Powercrete by weight of cement to the prepared mix of cement and sand mortar in ratio of 1:3 and repair all the patch work as per the suitability of the job.

Technical parameters	Unit	Powercrete- Dr.Fixit	Competition product
Appearance		Milky white coloured liquid	Milky white coloured liquid
specific gravity		1.03 +/- 0.02	
Base		Acrylic latex	Acrylic latex
Solid content	%	29%+/-2	30%+/- 3
Bond strength - 14 days as per ASTM C882-87	kg/cm <sup>2</sup>	21 kg/cm <sup>2</sup>	18 kg/cm <sup>2</sup>
compressive strength as per IS 516-	kg/cm <sup>2</sup>	130 kg/cm <sup>2</sup>	
3 days			
	10% dosage	114.60 kg/cm <sup>2</sup>	
	15% dosage	91.40 kg/cm <sup>2</sup>	
7 days			
	10% dosage	175.30 kg/cm <sup>2</sup>	125 kg/cm <sup>2</sup>

TECHNICAL PARAMETERS	UNIT	POWERCRETE- DR.FIXIT	COMPETITION PRODUCT
	15% dosage	173.10 kg/cm <sup>2</sup>	
Shelf life		12 months	12 months
Flexural strength	kg/cm <sup>2</sup>		
	10% dosage	20 kg/cm <sup>2</sup>	
	15% dosage	21 kg/cm <sup>2</sup>	
Controlled sample ( 1: 3)		19 kg/cm <sup>2</sup>	
permeability test		Passed	
Pull off strength		Excellent	
Area of application		Water proofing and repairs for cementitious substrate.	Water proofing and repairs for cementitious substrate.
Coverage - for waterproofing coating	Two coat ( with glass wool fibre )	1.5 m <sup>2</sup> - 1.6 m <sup>2</sup> / kg	1.20 m <sup>2</sup> / kg
	Two coat without glass wool fibre	1.75 m <sup>2</sup> - 1.85 m <sup>2</sup> / kg	-
Waterproofing thickness dft	mm	1.20mm - two coats	1mm - two coats.
Mix ratio for waterproofing coating		1: 2 ( Powercrete : cement )	1: 2
Dosage for PMM.		10-15% by weight of cement	25% by weight of cement
Shelf life		1year	1year
pH value		>7	> 7
Packing		1 kg, 5 kg, 20 kg, 50 kg	1 kg, 5 kg, 20 kg, 50 kg
Storage		Store in cool place in unopened container	
Application temperature		above 7°C to 45°C	above 10°C to 40°C

### Packing

1, 5, 20 & 50 kg container

### Shelf Life & Storage

- Best before one year from the date manufacture when in sealed pack and stored under proper condition.
- Store in a cool & dry place in unopened condition away from direct sunlight



## Coverage

- Coating/Slurry Mix Proportion : 100 kg cement : 50 kg Dr. Fixit Powercrete Polymer
- The coverage ratio varies as per the nature & porosity of the substrate.

## Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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