

# Dr. Fixit Powercrete



## ACRYLIC POLYMER COATING FOR CONCRETE PROTECTION

### Description

Dr. Fixit Powercrete is a acrylic polymer based composite waterproofing system when used in combination with cement, fibre mesh, silica sand, etc.

### Typical Applications

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

### Features

- 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.
- Suitable for exterior coating.
- Highly durable for terrace & wet area application.
- Provides tough, flexible, hard wearing surface for waterproofing.
- Is non-flammable and does not give off toxic gases, when exposed to fire.

### Packaging

1, 5, 20, 50 & 100 kg container

### 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 2:1 (2 parts of Cement: 1 part Powercrete) by weight, (always add powder to liquid for all applications).
- The mix should be stirred thoroughly until smooth homogeneous paste is obtained.
- Apply first coat over SSD condition substrate.
- Apply and unroll fibre mesh evenly on the wet coating before it dries out on larger areas.
- Using a nylon brush, apply 2nd coat of Dr. Fixit Powercrete coating over the fiber mesh so as to cover the fabric, allow 5-6 hours of air drying before application of 3rd coat of Dr. Fixit Powercrete slurry coating over the surface if required.
- Provide polymer modified protective plaster of 15-20 mm thick over the coating to ensure safety from mechanical damage.



## CURING

- Moist curing should be done for a period of 3 days by spraying / sprinkling of potable water after about 6 hours from the time of application of the final coat.
- After moist curing the coating shall be allowed to dry before submersion in water.
- 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.

## 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.

## Precaution & Limitations

- 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 sq.m. of 1.5 thickness
	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			1.30

## Technical Information

Technical parameters	Unit	Powercrete- Dr. Fixit
Appearance		Milky white coloured liquid
specific gravity		1.03 ± 0.02
Base		Acrylic latex
Solid content	%	29 ± 2
Bond strength - 14 days as per ASTM C882-87	kg/cm <sup>2</sup>	21 kg/cm <sup>2</sup>

TECHNICAL PARAMETERS	UNIT	POWERCRETE- DR.FIXIT
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.
Coverage - for waterproofing coating	Two coat ( with glass wool fibre )	1.5 m <sup>2</sup> - 1.6 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	1.20 mm - two coats
Mix ratio for waterproofing coating		1: 2 ( Powercrete : cement )
pH value		>7

### Shelf Life

- Best before 18 months 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

- Waterproof coating mix proportion 2:1 (.50 Kg cement : .25 Kg Dr. Fixit Powercrete) per sqm coat
- The coverage 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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