

DONPOWERCRETE

THE POWERFUL COATING SYSTEM FOR WATERPROOFING AND REPAIRS

CONFORMING TO :13435 PART-3

Description

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

SURFACE PREPARATION

- Prior to application of **DONPOWERCRETE**, 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 **DONPOWERCRETE** e modified mortar in mixing ratio of (1kg cement 1.50 kg silica sand: 050 kg of **DONPOWERCRETE**)

COATING APPLICATION

- Mix Cement with **DONPOWERCRETE** in ratio of 1:0.50 (1 kg cement OPC53 0.50 **DONPOWERCRETE**) 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 **DONPOWERCRETE** coating over the glass fabric so as to cover the fabric, allow 5-6 hours of air drying before application of another coat of **DONPOWERCRETE** 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 **DONPOWERCRETE** 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, **DONPOWERCRETE** coating shall be allowed to air cured for 3 days before submerging it in water

PRECAUTION

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

Description	DONPOWERCRETE	Slurry	DONPOWERCRETE brush topping
	Single coat (1:2) (Powercrete :comment)		Two coat
	Qty in Kg	Qty in Kg	Qty in Kg
Donpowercrete	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 **DONPOWERCRETE** shall be used for all renovation works in concrete substrate.
- Add 10-15% of **DONPOWERCRETE** 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	Donpowercrete
Appearance		Milky white coloured liquid
specific gravity		1.03 +/- 0.02
Base		Acrylic latex
Solid content	%	33%+/-1%
Bond strength - 14 days as per ASTM C882-87	kg/ cm ²	21 kg/ cm ²
compressive strength as per IS 516	10% dosage	130 kg/cm ²
	15% dosage	114.60 kg/cm ²
	7 days	91.40 kg/ cm ²
	10% dosage	114.60 kg/ cm ²

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TECHNICAL PARAMETERS	UNIT	DONPOWERCRETE
	15% Dosage	173.10 kg/cm ²
Shelf life		12 months
Flexural strength	kg/cm ²	
	10% dosage	20 kg/ cm ²
	15% dosage	21 kg/ cm ²
Controlled sample (1: 3)		19 kg /cm ²
permeability test		Passed
Pull off strength		Excellent
Area of application		Water proofing and repairs for ementitious substrate.
Coverage - for waterproofing Coating	Coverage - for waterproofing Coating	1.5 m ² - 1.6 m ² / kg
	Two coat ithout glass wool fibre	1.75 m ² - 1.85 m ² / kg
Waterproofing thickness dft	mm	1.20mm - two coats
Mix ratio for waterproofing Coating		1: 2 (Powercrete : cement)
Dosage for PMM .		10-15% by weight of cement
Shelf life		1 year
pH value		>7
Packing		1 kg, 10 kg, 20 kg,
Storage		Store in cool place in nopened container
Application temperature		above 70C to 450C

Packing

1, 10, & 20 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 **DONPOWERCRETE** Polymer.
- The coverage ratio varies as per the nature & porosity of the substrate.

Other Products Categories available

Don you the widest range of Construction Chemicals.

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TECHNICAL COLLABORATION WITH



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