

TECHNICAL DATA SHEET



V-CON POWERCRETE

V-CON Powercrete is a milky white speciality styrene acrylic latex, used for cementitious waterproofing coating and external coating. It is manufactured by employing state-of-the art emulsion polymerization technology ensuring product consistency.

AREA OF APPLICATION:



Waterproofing of terraces, sunken portion, chajjas, etc.



External surface coating



Patch repair mortar for RCC members and floor

ADVANTAGES:

- Reduces water without affecting workability
- Un-affected by ultraviolet
- Increases workability at a given W/C ratio
- Gives dense mortar/concrete resulting improved impermeability
- Increases flexural, tensile strength and bond strength
- Reduces shrinkage in mortar and concrete
- Bonding agent between old and new concrete
- Prevents salt penetration into the concrete thus resisting to sulphate and chloride attack
- Acts as anti-corrosive for steel rebar
- Increases durability of waterproofing coating even in continuous contact with water
- Imparts resistant to fungal and microbial growth
- Allows easy cleaning of tools and equipment used for application

MIXING RATIO:

1.0:1.5

Water proofing coating
V-CON Powercrete : Cement

1.0:1.5

Bonding coating
V-CON Powercrete : Cement

TECHNICAL SPECIFICATIONS AS PER ISO 9001: 2015

Appearance	:	Milky white pourable liquid
% Total solids	:	34 ± 0.5 %
Specific gravity	:	1.01 - 1.02
Application temperature	:	Between 5° C to 45° C
Shelf life	:	12 months in ideal storage conditions

APPLICATION METHOD:

WATER PROOFING

- For Waterproofing of existing slab, the mother concrete slab must be stripped off its old treatment completely. Mechanical methods must be adopted to prepare the surface and vacuum suck to clean off all loose particles and debris
- Mother slab must be sound/mechanically surface prepared/grouted for internal cracks
- Surface cracks must be suitably treated with Polymer Modified Mortar (PMM)
- Slab must be thoroughly wetted with water to a state where it is saturated. But, extra care must be taken to see that there is no stagnant or standing water. Any such water must be mopped off. Ensure a Saturated Surface Dry (SSD condition) where the slab is thoroughly wet but dry to touch before further treatment
- Mix V-CON Powercrete and cement in the ratio of 1.0 : 1.5 by weight. Apply first coat on the surface and allow it to dry for 4-5 hours
- Apply second coat right angle to the first coat with same latex cement ratio. Provide suitable mechanical key to achieve better bonding
- Allow them to air cure for at least 72 hours. For Horizontal applications, 15-20 mm cement-sand -mortar screed in 1 : 3 shall be laid over the coating, which protects the film from damage and allows further work

BONDING

- Surface for bonding treatments must be thoroughly cleaned of all laitance, loose material, oil, greases etc
- Mechanical means such as wire brushing, shot blasting can be used, and finally vacuum cleaned of all loose solids and liquids
- Pre wet the surface with water adequately to a Saturated Surface Dry (SSD condition). Ensure that there is no standing water
- Mix V-CON Powercrete and cement in the ratio of 1.0 : 1.5 by weight to get a smooth creamy paste
- Immediately apply single coat with brush. Allow this coat to become tacky and then apply fresh concrete or mortar immediately. Avoid the bond coat to get dried up completely. However, if it gets dried up in such case apply second coat

COVERAGE

APPLICATION AREA

COVERAGE

Waterproofing coat for terrace, chajja, bathroom etc.	:	30-35 sq.ft. per kg for double coat
Bond coat	:	55-60 sq.ft. per kg, per coat

(Note: Coverage may be varying depending upon substrate condition.)

POLYMER MODIFIED MORTAR (PMM) PREPERATION

Cement	:	50 kgs
Sand	:	125-150 kgs
V-CON Powercrete	:	9.0-10.0 kgs
Water	:	Just sufficient to attain desired consistency

COVERAGE

APPLICATION AREA

COVERAGE

Bond coat	:	55-60 sq.ft. per kg, per coat
Repair mortar (PMM)	:	7-8 sq.ft. per kg for 10 mm thickness

(Note: Coverage may be varying depending upon substrate condition.)

PRECAUTIONS AND NOTE:

- Always use fresh cement, sharp, clean and well-graded aggregate
- V-CON Powercrete is used with PPC and OPC cement
- Always add cement into latex and not latex into cement
- Do not apply coating over loose and debonded surfaces
- Do not use hard water for mixing with polymer/cement

HEALTH AND SAFETY:

Keep out of reach of children. Keep in cool place. If in contact with eyes, rinse with plenty of water and seek medical attention if irritation develops.

PACKAGING:

1 kg, 5 kg, 26 kg, 50 kg and 100 kg.



Disclaimer: These suggestions and data are based on information, which we believe to be reliable. They are given for information only and in good faith, but without guarantee, as conditions and emethods of use of our products are beyond our control. We recommend that the user determine the suitability of our materials and suggestions before adoption them on a commercial scale. Recommended use in construction segment.



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