

FIBCRETE (WPC)

Acrylic Bonding / Waterproofing Compound

DESCRIPTION

FIBCRETE (WPC) is architectural grade acrylic emulsion specially designed for modifying portland cement formulation. Mortar modified with FIBCRETE (WPC) has improved physical strength, superior adhesion to concrete, masonry or other surfaces and excellent waterproofing characteristics. It is UV stable and in conjunction with cement can provide superior adhesion, higher flexural strength and hard-wearing waterproofing coating.

AREAS OF APPLICATION

- Waterproofing of concrete terraces, basements, toilets, swimming pools, water tanks, etc
- Toppings, patches and leveling courses
- Repairs utilizing spray or fill coats
- General reconstruction
- Repairs to precast structural members
- Architectural panels, bridge decks and highway repairs

FEATURES & BENEFITS

- Easy to use and UV stable
- Improves bond strength
- Reduces cracking through increased mortar flexural strength
- Increases mortar wear resistance under rubber wheeled traffic
- Increases mortar tensile strength
- Repair mortar offers greater impact resistance
- Reduces permeability resists mild acids to strong alkalies
- It is non-flammable and does not give toxic gases when exposed to fire
- It is not harmful to the health of the workman

TECHNICAL SPECIFICATIONS

Appearance	:	Free flowing white liquid - dries off to colourless
Sp. Gravity	:	1.01
Shelf life	:	1 year in unopened containers

COMPRESSIVE STRENGTH (50 mm) cubes

3 days	:	210 kg/cm ²
7 days	:	280 kg/cm ²
28 days	:	340 kg/cm ²

FLEXURAL STRENGTH

28 days	:	90 kg/cm ²
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BOND STRENGTH

14 days	:	80 kg/cm ²
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MATERIAL REQUIREMENTS

Coverage*	Cement	Sand		
	FIBCRETE (WPC)			
1)	Cement Slurry	45 kg	-----	26 - 30 litre(55 - 75 m ²)



(55-75 m²)

(Bond coat)

2) Repair Mortar 45 kg 140 kg 19-23 litre
(10-11 m² for 13 mm)

* **Projected coverage is an estimate only, and is highly dependent upon sub-base texture.**

APPLICATION METHODOLOGY

PREPARATION

If using this product in a slurry bond coat, the base concrete must be a minimum of 3 days old. The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bush hammer, shotblast or scarifier which will give a surface profile of a minimum 3mm and expose the large aggregate of the concrete.

NOTE: Acid etching is not acceptable. The final step in cleaning should be the cleaner or pressure washing. Allow the concrete surface to begin drying. Do not place slurry coat on standing water. All concrete must possess an open surface texture with all curing compounds and sealers removed. All areas should be pre-wetted to reduce moisture loss. Do not place product on standing water.

BONDING

For bonding toppings with this product, FIBREX strongly recommends using a slurry coat rather than using this product as a primer by itself. After the surface has been prepared, prime all areas with a slurry coat (see above mix design) before the topping is applied. Follow mixing and placing instructions listed below. Place the topping on the slurry coat before it dries out.

MIXING

Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range 5°C - 32°C. Add the appropriate amount of FIBCRETE (WPC) for the batch size and then add the dry material. Mix a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

PLACEMENT

Discharge material from mixer and place onto floor.

SLURRY APPLICATION

Spread the slurry with a stiff bristle broom until the suggested coverage rate is achieved.

APPLICATION

Coating has to be commenced when primer coat is tacky. When mixed as per recommended quantities, the material will have a brushable consistency. Brush with long and easy strokes. Two brush coats will be required to achieve a spread rate of 3-3.5 kg/m². An interval of 24 hrs. is recommended between each coat. Brushing in a perpendicular direction to the previous coat will ensure uniform and complete coverage. Proper curing procedures are important to ensure the durability and quality of the repair or overlayment. To prevent surface cracking, a moist cure should be maintained for 72 hrs.

NOTE: Do not use a solvent-based curing compound on latex modified mortars.

CLEAN UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS

- Do not use material at temperature below 7oC
- No heavy traffic until the repair has cured.
- Do not use in ready mix concrete
- May not be suitable for use on its own as a bonding agent, use in slurry with portland cement or consult FIBREX CONSTRUCTION CHEMICALS PVT. LTD.
- Use of this product in conjunction with air entrained cement/concrete or with other admixtures may significantly increase total entrained air content. Testing is strongly advised.

PACKAGING

FIBCRETE (WPC) is packaged in 5 litre, 20 litre and 200 litre containers.

WARRANTY : Fibrex Construction chemicals Pvt.Ltd ("Fibrex") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Fibrex, no other representations or statements made by Fibrex or its representatives, in writing or orally, shall alter this warranty. FIBREX MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Fibrex product fails to conform with this warranty Fibrex will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Fibrex does not authorize anyone on its behalf to make any written or oral statements which in any way alter Fibrex's installation information or instructions in its product literature or on its packaging labels. Any installation of Fibrex products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Fibrex's products for the Buyer's intended purposes.