

**PRODUCT DESCRIPTION:** Fibcrete WPC is a one-component, concentrated liquid acrylic latex polymer used to waterproof & enhance the performance of cementitious repair mortars, plasters, stuccos, concrete mixes, Tile adhesives and toppings for the restoration of horizontal, vertical and overhead concrete; thin Portland cement coatings; and masonry surfaces. It densifies surfaces and makes them more resistant to many chemicals and mild acids, as well as to the penetration of water or aqueous solutions. Also, properly modified cement is made self-curing and eliminates the need of adding curing agents to the mix.

#### AREAS OF APPLICATION

- Waterproofing of Sunken Areas, balconies etc.
- Waterproofing of Water tanks
- Deck Waterproofing
- Modifier for Tile Adhesives.

#### ADVANTAGE

- Improves curing
- Improves workability
- Increases tensile strength
- Reduces dry Shrinkage
- Easy to use and UV stable
- Improves bond strength
- Reduces potential for efflorescence
- 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
- Solvent free/VOC compliant
- Waterproofing coating with cement combination
- Enhances adhesion and durability

#### APPLICATION METHODOLOGY

##### SURFACE 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, 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.

#### 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.

#### APPLYING AND LAYING

##### FOR SLURRY APPLICATION

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

##### FOR COATING APPLICATION

Coating has to be commenced when primer coat is tacky. When mixed as per recommended quantities, the material will have a brush-able consistency. Brush with long and easy strokes. Two brush coats will be required to achieve a spread rate of 3-3.5kg/m<sup>2</sup>. An interval of 24hrs 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 over layment. To prevent surface cracking, a moist cure should be maintained for 72hrs.

##### FOR BONDING APPLICATION

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 before the topping is applied. Follow mixing and placing instructions. Place the topping on the slurry coat before it dries out.

#### CLEAN UP

Clean all tools immediately after use with water. Do not allow material to harden. Any hardened material will need to be removed mechanically.

# FIBCRETE WPC

High Solid Acrylic Polymer for Waterproofing Mortar and Concrete

Product # 114.45  
Version no: 16.11.23

Tech Data

## TECHNICAL SPECIFICATIONS

Appearance	Free flowing white liquid - dries off to colorless			
Sp. Gravity	1.02±0.1			
Solids	30±2%			
Pot Life	20min @38°C			
Covrage (2 parts of OPC with 1 Part of Fibcrete WPC)	2 kg/m <sup>2</sup> /1 mm(slurry coat)			
<b>COMPRESSIVE STRENGTH</b> (50 mm) cubes (BS 6319)				
3 days	20.59 N/mm <sup>2</sup>			
7 days	27.46 N/mm <sup>2</sup>			
28 days	33.34 N/mm <sup>2</sup>			
<b>FLEXURAL STRENGTH</b>				
28 days	8.83 N/mm <sup>2</sup>			
<b>BOND STRENGTH</b>				
14 days	7.85 N/mm <sup>2</sup>			
<b>MATERIAL REQUIREMENT</b>				
Type	Cement	Sand	FIBCRETE(WPC)	Covrage
Cement Slurry	45kg	0kg	26 – 30 KG	55 - 75m <sup>2</sup> (Bond Coat)
Repair Mortar	45kg	140kg	19-23 KG	10-11m <sup>2</sup> (for13mm )

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

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LIMITATIONS

- Do not apply Fibcrete WPC on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %. Consult fibrex before using Fibcrete WPC in those areas.
- Do not apply Fibcrete WPC to asphalt, weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially.
- Do not apply Fibcrete WPC over treated expansion joints.

## Please contact FIBREX for installation of floor coating over

- Oil / Fat rigged floors
- Floors with moisture content over 4 %
- Floors with rising moisture problem
- Asphalt based surface (interior)
- Floors with a pull off strength less than 1.5 N / mm<sup>2</sup>

## PACKAGING

Fibcrete WPC is available in 5 kg can, 15kg can set, 20 kg bucket and 200 kg barrel.

## STORAGE

Fibcrete WPC has shelf life of 12 months if stored properly in original, unopened packing between +50° to + 40° in dry areas.

## PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

## DISPOSAL / SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

## NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

## HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

## DISCLAIMER:

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## FIBREX OTHER PRODUCTS – WE DO

