

**PRODUCT DESCRIPTION**

PWC™ is a two part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and a cement based mix incorporating special admixtures. It is applied to concrete and mortar to prevent water infiltration. PWC™ is easy to apply on the surfaces by stiff brush, roller, trowel or with spray equipment for larger applications to form a flexible waterproof coating.

**PRODUCT FEATURES**

- Pre-batched components
- Polymer modified cementitious waterproof mortar slurry
- Excellent waterproofing characteristic.
- Bond strength ensures superior adhesion.
- Easy to apply on the surfaces BY stiff brush, roller or trowel
- Formulated for potable water applications. The product is used for waterproofing of potable water or wastewater treatment facilities in new construction or restoration projects.
- Can be used for both – Negative / Positive side waterproofing of concrete structures.
- Interior and exterior applications
- Compatible with EN 14891

**PRODUCT USES**

The CWS™ can be applied to all structurally sound concrete – new or old. Typical areas of application are:

- Tanks
- Water-retaining structures
- Sewage treatment plants
- Channels
- Bridges
- Concrete slabs (floor, roof, balcony etc...)
- Parking structures
- Foundations

**HOW TO USE**

**SURFACE PREPARATION**

- All surfaces to be in contact with PWC™ product shall be free of oil, grease, laitance and other contaminants.
- Remove any bony or defective concrete. Seal cracks and spalled areas with appropriate repair products.
- Surfaces must be saturated surface-dry (SSD), with no standing water at the time of application.

**MIXING**

- All mixing must be done mechanically using a low-speed drill (400–600 rpm) and paddle.
- Place Component 'A' into a clean mixing container.
- While mixing, slowly add all of Component 'B' and continue to mix until you achieve a uniform paste with no lumps.

**APPLICATION**

- PWC™ can be applied by stiff brush, roller, trowel or spray equipment. Ensure that the material is thoroughly worked into the substrate to fill all pores and voids.
- Application of 2 to 3 coats will be required. Ensure that the previous coat is sufficiently dry before applying the next coat (typically after 4 hours,



Two Component Polymer Modified Waterproofing Coating - PWC™

depending on the substrate temperature and absorbability). The second coat should be applied perpendicular to the first coat.

- Place the AR-fiberglass mesh over the PWC™ while still wet and gently press it in with the trowel so that it is completely covered.

**TECHNICAL DATA**

|   |   |
|---|---|
| Appearance / Colors                         | Part A: white liquid<br>Part B: white / gray powder |
| Basis                                       | polymer modified cementitious                       |
| Density                                     | 1.75 kg/L   |
| Mixing Ratio (Parts A:B) by Weight          | 1:5   |
| Adhesion Strength                           | >5 N/mm <sup>2</sup>                                |
| Water resistance                            | Passed  |
| Material consumption                        | ~1,2 kg/m <sup>2</sup> /mm                          |
| Crack bridging ability (CBA)                | >0.75 mm  |
| Drying time before recoating or top coating | 5 days @ +25°C                                      |
| Drying time until full cure                 | 14 days @ +25°C                                     |
| Layer thickness                             | Min: 1 mm<br>Max: 10 mm                             |

**PACKAGING**

- Hobbock: 5kg
- Bag: 25kg

**STORAGE**

- 6 months from the date of manufacture in original unopened sealed bag when stored in dry conditions

**HANDLING**

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended

when handling mortars to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing / gloves / goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

**CLEANUP**

Dispose of material in accordance with local disposal regulations. Uncured material can be removed with approved solvents. Cured materials can only be removed mechanically.

**FIRST AID**

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

**DISCLAIMER OF LIABILITY**

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within one month of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.