

UNI PROOF 105[®]

Flexible , 2 component Cement base polymer modified waterproofing slurry



Description:

Uni Proof 105[®] is a cement-based , flexible 2 component waterproofing slurry . it is offering out standing bonding and good flexibility , suitable for water tanks , concrete and mortar structures to prevent water leakage.

Fields of Application:

- Indoor / outdoor waterproofing.
- Cement board waterproofing.
- Water reservoirs (sewage water tanks , digestors , Potable water tanks ...etc).
- Bridges & Sea walls.
- Concrete , plaster , bricks , cement-blocks, mosaic ...etc that show or expected to show hairline cracks .

Advantages :

- Crack bridging ability .
- Stable waterproofing under water pressure 7 atm .
- Superior bonding even on wet surfaces .
- Resistance to ageing .
- Easy to use .

Technical Data :

- **Form:** Cementitious mortar
- **Colors:** grey, white
- **Liquid demand** 5 lit/20 kg bag (Pre-packed)
- **thickness:** up to 2.5 mm
- **Pot life:** at least 1 h
- **Bond strength after 28 days** 2-3 N/mm²
- **Compressive strength after 28 days** 30-40 N/mm²
- **Flexural strength after 28 days** 10-12 N/mm²

Exposure :

- **Rain:** after approx. 3 hours.
- **Walking:** after approx. 1 day.
- **Tile fixing:** after approx. 1 day.
- **Water pressure:** after approx. 7 days.

Surface Preparation:

- The surface must be clean, free from dust, grease, paint, loose material etc.
 - Building surfaces must comply with building standards(codes) or consultant recommendations .
 - Weak uneven concrete or masonry surfaces should be smoothen by eliminating it .
 - Dry , dusty concrete slabs or masonry should be cleaned , dampened and excess water swept off .
 - saturate absorbent surfaces throughly with water before application.
-

Direction Of use:

Mixing:

- Mix in a clean container preferably plastic).
- **Uni Proof 105 Comp A** 20 kg Powder should be added gradually to **Comp B** 5 Lit Liquid under continuous slow speed mixer until a slurry is formed .

Application:

- Application can start after finishing the surface preparation by at least 24 hours to ensure the initial set of the filling materials .
 - Observing the substrate is in a saturated surface dry condition .
 - The slurry can be applied by brush in 2 or more layers depending on water effect .
 - Each layer should not exceed 1 -2 mm , because the material may crack .
 - The new coat should be brushed in a perpendicular direction on the previous coat to ensure the full coverage of the surface .
 - Each new coating is applied after the previous has dried.
 - The freshly coated surface should be protected from high temperature , rain and frost .
 - On spots where **UNI PROOF 105** needs to be reinforced (wide cracks , junctions ..) using a fiberglass mesh tape is recommended .
-

Coverage rate:

- 1.5-2 Kg/m² depending on the layer thickness and the nature of the substrate .
-

Packaging :

- **Uni Proof 105**[®] is supplied in a combined package of 25 kg(20 kg Sack and 5 Kg plastic container).
-

Storage :

- Shelf-life is at least 12 months .
 - Store in a dry, well-ventilated and moisture-free place.
 - The bags should be stacked on wooden pallets about 10cm at least above the floor.
-

Safety & Precautions :

- By taking a few basic precautions, cement based products is one of the safest building materials known Relatively few people involved in mixing, handling, and finishing cement based products have experienced injury.
 - Protecting head, hands and skin should be sufficient to work safely.
-