

### Description:

Dry proof 505 is cement based, two component, acrylic polymer modified SLURRY which is easily applied by brush, roller, trowel or spray.

When dries, Dry Proof 505 forms durable, high quality waterproof membrane for concrete, cementitious, masonry surfaces, isolated footing and foundations.

### Composition:

Dry proof 505 is composed of specially selected high strength cements, selected well graded fillers, and additives in powder form together with liquid component of styrene acrylic and wetting agents.

**Standards:** Dry Proof 507 formulation Complies with EN 14891/2017 standards

### Uses:

Dry Proof 505 is used as internal and external waterproofing membrane in the following structures:

- Walls and floors in wet areas such as bathrooms, kitchens, balconies and roofs.
- Water retaining structures such as swimming pools and waste water tanks.
- Foundations, isolated footing, raft foundation, retaining walls and basements.
- Where anti carbonation protection is required to concrete structures.
- Sewage treatment facilities including concrete tanks, clarifiers etc...
- Against aggressive soil contain sulfate and chloride salts.

### Technical Data:

Color	Gray and White
Powder Density	1.9 ton/m <sup>3</sup>
Toxicity	Non toxic
Positive pressure	1.5 Bar
Negative pressure	0.5 Bar
VOC content	< 5 g/L
Tensile adhesion strength	> 1.0 N/mm <sup>2</sup> (EN 14891:2017)
Compressive Strength	> 18 N/mm <sup>2</sup> @ 28 days (ASTM-C942/C.579)
Bond Strength	> 2.00 N/mm <sup>2</sup> @ 28 days (ASTM C1042/82-C-321)
Elongation	> 3% (ASTM C307)
Flexural Strength	> 7 N/mm <sup>2</sup> @ 28 days (ASTM C580/D790)
Crack bridging ability	1.00 mm (EN 2017 / 1489 )
Pot Life	Approx. 40 minutes at °23 C.
No. of Coats	Two coats (minimum).
Time Between Coats	12 hours minimum at °25C and %50 relative humidity

### Packaging:

Dry Proof 505 is available in two component pack:

- Powder: available in 20 kg / bag.
- Liquid: available in 5 kg / jerrycan

### Mix Proportion:

20Kg powder with 5 Kg liquid

### Coverage Rate:

1 – 1.25 Kg/m<sup>2</sup>/coat. (two coats).

(Coverage rate may vary depending on surface condition)

## **Advantages:**

- Easy to use and apply. Only requires the mixing of the two components on site.
- Raw materials are selected according to the highest quality control standards.
- Flexible. Will accommodate hair cracks movement up to 1.0 mm.
- Limited flexibility.
- Will not support bacterial growth.
- Suitable for light pedestrian traffic.
- Can be applied to damp surfaces and 24 Hours old concrete substrates.

## **Surface Preparation:**

- Substrates to be waterproofed should be in good, strong and stable condition. Remove all grease, oil, dust, residual curing compound, mold release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro jetting. Mechanical wire brushing may be appropriate for small areas.
- Surface cracks should be cut back and repaired using suitable cementitious repair mortar. Wall to floor intersections should be cut 20 X 20 mm along the junctions and filled with suitable cementitious repair mortar and round out to 40 mm minimum radius. The substrates to be waterproofed should be levelled and as flat as possible. It should be thoroughly wetted but free of standing water prior to the application of **Dry Proof 505**

## **Application Procedures:**

- **Dry Proof 505** is supplied in pre-measured units and should be mixed on site utilizing clean containers. Slowly add the powder to the liquid and mix, using a slow speed drill fitted with a suitable paddle. **MIX AND USE**. Do not mix more material than can be used within one hour.
- NOTE: part packs can be used by mixing ratio 4 by weight of powder to 1 by weight of liquid. Mix thoroughly, and keep mixed during application. **DO NOT RE-TEMPER WITH WATER**.
- Always apply **Dry Proof 505** to pre-wetted substrates but free from standing water
- Saturate concrete surfaces with clean water whilst still visibly damp, but free of standing water; apply the first coat using short, stiff bristle brush or roller.
- Allow at least overnight to cure before applying the second coat.
- Dampen the first coat and remove excess water. Apply the second coat as above at right angle to the first coat.
- If cementitious plaster will be applied over **Dry Proof 505**, sand dash immediately to create mechanical key and aid adhesion.
- If the second coat is the final coat, finish it with brush, roller or sponge to get a uniform finish.
- Allow the second coat to dry. Damp cure for 24 hours.

## **Important Notes:**

- Do not apply **Dry Proof 505** on movement joints Expansion joints should be included as per the substrate design and carried out through **Dry Proof 505**.
- Never cure with water or any curing compounds.
- It is advisable that **Dry Proof 505** should be protected against rapid drying and rains for 2 days.
- **Dry Proof 505** can be subjected to mechanical stresses after 2 days and can be opened to water exposure after 2 days.
- **Dry Proof 505** should be protected from damage due to the application of subsequent layers.
- **Dry Proof 505**, it is recommended to use **Dry Fix Family** for fixing tiles using thin bed method of installation.
- **Dry Proof 505** whilst stopping water running, it remains breathable. Only vapor permeable finishes are recommended to be applied over **Dry Proof 505**.

## **Storage:**

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

## **Health and Safety:**

While using the product, gloves and goggles should be worn.

Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.

### **DISCLAIMER**

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.