



Dry Proof 507 EF

Cement base, polymer modified,
two component, high quality, Extra flex
Waterproof coating

Description:

Dry proof 507 EF is cement based, two component, acrylic polymer modified coating which is easily applied by brush, roller, trowel or spray.

When dries, Dry Proof 507 EF forms extra flexible sheet, high quality waterproof membrane for concrete, cementitious and masonry substrates

Composition:

Dry proof 507 EF is composed of specially selected high strength cements, selected well graded fillers, and additives in powder form together with liquid component of acrylic polymer dispersion and wetting agents.

Standards: Dry Proof 507 EF formulation Complies with EN 13892/2 standards

Uses:

Dry Proof 507 EF 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, potable water tanks and waste water tanks.
- Foundations, retaining walls and basements.
- Where carbonation and chloride protection are required to concrete structures.
- Sewage treatment facilities including concrete tanks, clarifiers etc...
- For coating sea water channels.
- Sealing and coating tie holes to ensure water tightness.
- Can use on pedestrian walkways in marine areas

Technical Data:

Color	Gray, White and light blue
Density	1900 Kg/m ³
Toxicity	Non toxic
Positive pressure	5 Bar
Negative pressure	0.5 Bar
VOC content	< 5 g/L
Tensile adhesion strength	> 1.0 N/mm ² (EN 14891:2017)
Compressive Strength	> 20 N/mm ² @ 28 days (EN 13892 -2)
Bond Strength	> 0.7 N/mm ² @ 28 days (EN 13892 - 8)
Elongation	> 140 % (ASTM D412)
Flexural Strength	> 6 N/mm ² @ 28 days (EN 13892 - 2)
Crack bridging ability	2.0 – 2.5 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 507 April 2022 EF is available in two component pack:

- Powder: available in 15 kg / bag.
- Liquid: available in 5 kg / jerrycan

Mix Proportion:

Mix the 2 components together.

Coverage Rate:

1 – 1.25 Kg/m²/coat. (Two coats are required).

(Coverage may vary depending on surface conditions).

Apply the second coat at right angles to the first coat.

Advantages:

- Easy to use and apply. Only requires the mixing of the two component on site.
- Raw materials are selected according to the highest quality control standards.
- Effect of water pressure:
 - Will not support bacterial growth.
 - Water proof resists up to 5 Bars.
- Suitable for light pedestrian traffic.
- Flexible. Will accommodate hair cracks movement up to 2.5 mm.
- Excellent adhesion – bonds to porous and non- porous surfaces.
- Can be applied to damp surfaces and 24 Hours old concrete substrates.
- A 1mm coating provides anti carbonation cover equivalent to over of 60 cm of concert.
- High resistance to carbon dioxide and chloride ion diffusion.
- Breathable – whilst repelling water , allows substrate to breath.
- **Dry Proof 507 EF** provides a protective water proof coating when tested to EN 12390/8 and has shown to resist water pressure up to 5 Bars. The degree of resistance depends on the coating thickness and coverage rate. (4 Kg/m² resist 3 Bars – 6 Kg/m² resist 5 Bars).

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 cementations repair mortar. Wall to floor intersections should be cut 20 X 20 mm along the junctions and filled with suitable cementations 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 507 EF**.

Application Procedures:

- **Dry Proof 507 EF** 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 507 EF** 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 cementations plaster will be applied over **Dry proof 507 EF**, 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.
 - Woven fiberglass mesh to reinforce the **Dry Proof 507 EF** layer along static hairline cracks. Using trowels remove any wrinkles in the mesh by forcing down into the dry proof 507 EF. Ensure the mesh is completely embedded and covered with **Dry Proof 507 EF** over top of mesh to cover. Trowel to a smooth uniform finish.
 - Allow curing so that surface can take light foot traffic without harming the coating.

Important Notes:

- Do not apply **Dry Proof 507 EF** on movement joints Expansion joints should be included as per the surface design and carried out through **Dry Proof 507 EF**.
- Never cure with water or any curing compounds.
- It is advisable that **Dry Proof 507 EF** should be protected against rapid drying and rains for 2 days.
- **Dry Proof 507 EF** can be subjected to mechanical stresses after 2 days and can be opened to water exposure after 2 days.
- **Dry Proof 507 EF** should be protected from damage due to the application of subsequent layers.
- **Proof 507 EF**, it is recommended to use **Dry Fix 402** or **Dry Fix 405** for fixing tiles using thin bed method of installation.
- **Dry Proof 507 EF** whilst stopping water running, it remains breathable. Only vapor permeable finishes are recommended to be applied over **Dry Proof 507 EF**.
- **Dry proof 507 EF** is supplied in premeasured packs. Part packs can be used by mixing ratio (by weight) 1 part of liquid to 3 part of powder. Mix thoroughly, and keep mixed during application (do Not Re-temper with water).

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

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