

Pro-Seal 1050



Cementitious, Flexible Waterproof Coating.

Description

Pro-Seal is a two-component acrylic polymer modified Cementitious Waterproof and protective coating, consisting of a High-quality Portland Cement and formulated with acrylic Copolymer solution and some additives.

Pro-Seal powder mixed with Pro-seal solution to make a lump-free slurry. When applied by brush, roller, trowel or spray, it provides a flexible Hi-performance waterproof protective shield.

Waterproof membrane of **Pro-Seal** provides an effective barrier against waterborne salts and atmospheric gases when applied to concrete and masonry above and underground levels.

Recommended Applications

- **Pro-Seal** elastomeric Cementitious coating specially designed for Roof, Basements, Canal lining, Water tanks, Roof Garden waterproofing, Shell roofs, Swimming pools, Water treatment plants, Kitchen, Washrooms, Wardrobes, Dead wall and etc.
- **Pro-Seal** is suitable waterproof coating for use on all types of structures in industrial, commercial and residential areas including those situated in coastal environment.
- **Pro-Seal** can be applied on concrete, bricks and block works and equally suitable for both new and existing structures and a result provide a durable, flexible waterproof membrane suitable in accepting light foot traffic.

Features and Benefits

- **Waterproof:** Suitable for internal and external waterproofing.
- **Excellent adhesion:** Easily bonded with porous and non-porous surfaces.
- **Flexibility:** Cops with thermal movement of concrete structures.
- **Protect against Coronation:** Up to 800 microns coated membrane of Pro-Seal provides anti-carbonation cover.
- **Vapor Permeable:** Resulted waterproof membrane repelling water, allows concrete to breathe thus preventing osmosis.
- **Suitable for contact with potable water:** Can be used for lining concrete water storage tanks.
- **Surface Preparation:** Minimum surface preparation required.

Properties

Pot Life at 20°C	01 hour
Pot Life at 40°C	30 min
Wet Density	1700 Kg/m ³
Toxicity	Non - toxic
Colour	Grey
Compressive Strength (28 days)	45 N/mm ²
Chloride ion diffusivity	Not measurable after 24 hours of testing
Minimum Application Temperature	5°C
Resistant to UV-radiation	Good Resistor

Instructions for Application

• Surface Preparation:

Correct substrate preparation is critical for optimum performance of Pro-Seal. All the surfaces, which are to receive the coating, must be free from contamination such as oil and grease, old coatings, curing compounds, laitance, loose particles and etc. Mechanical wire brushing may be appropriate for small areas. Typically, using high-pressure water jet or grit blasting can clean the concrete surfaces. Spilled surfaces or those containing large blowholes, cracks or other such defects, should be repaired using the appropriate grade of concrete repair mortar.

• Mixing:

Pro-Seal is supplied in premeasured unit and should be mixed on site using a metal or plastic drum having a volume of at least 25 litre. Slowly added the powder part to the liquid and mix by using a slow speed (300 rpm) drill fitted with a approved mixing paddle. Mixing must be continued until lump-free slurry is obtained. This should take 3-5 minutes.

Mix and Use: Do not mix more material than can be used within one hour. And don't apply to dry concrete surfaces. Saturate concrete surfaces with clean water and apply whilst still damp, using a short, stiff bristle brush or roller. High porosity substrate required more damping than dense substrate.

• Application:

Apply the material on damped surface using a soft bristled brush (120 - 200 mm wide) or trowel to achieve a wet film thickness of less than 1 mm. Application may also be achieved by using roller, however, it is recommended to finish the surface with a trowel for best results. The first coat should be allowed to cure for a minimum 5 hour at 20°C

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or 3 hours at 35°C prior to second application, should it be required. Pre-damping of the substrate is not necessary prior to applying the second coat.

• **Note:** Actual coverage area of **Pro-Seal** will vary dependant on texture and porosity of substrate. The coverage figures are theoretical, due to wastage factors and the variety and the nature of possible substrates, particle coverage figures will be reduced.

It is recommended, two coats of **Pro-Seal** for optimum performance. Spray application is recommended for large areas, details of suitable equipment can be provided by Pro-Tech Technical Services Dept.

Estimated Data

Approximately 15 m²/pack depends upon the condition of the surface.

Cleaning and Disposal

All the tools and equipment should be washed with water immediately after use. Do not dispose-off into water or soil but according to local regulations. Hardened material can only be removed by mechanical means.

Packing

Pro-Seal is available in 16 kg unit consisting of:

- Component A: 11.0 kg Powder
- Component B: 5.0 Litre Liquid

Available in Grey standard Colour or as per client's demand.

Storage and Shelf life

Pro-Seal kit must be store in dry and cool place below 35°C temperature. Also protect from direct sunlight contact. Shelf life of Pro-Seal is 12 months if stored properly in recommend area and in original unopened packaging.

Precautions and Limitations

Pro-Seal powder is irritating to the eyes, respiratory system and skin. Avoid inhalation of dust and wear suitable respiratory PPE's. **Pro-Seal** liquid is not classified as dangerous. **Pro-Seal** when mixed, becomes highly alkaline, wear suitable protective clothes, gloves and eye protector.

For both components and mixed material, avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. **Pro-Seal** should not use when the temperature is below 5°C and falling. Do not proceed with application when rainfall is imminent unless in a sheltered or protected location. The product should not be exposed to moving water during application.

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