

CEMENTITIOUS WATERPROOFER

- Against active or passive water pressure
- Efflorescence-free

- For concrete and masonry
- Application by spray equipment

PRODUCT DESCRIPTION:

Pro-Struct 875 Cementitious Waterproofer is a single component waterproofing system incorporating a blend of cementitious powders combined with proprietary activating chemicals and high grade quality aggregate fillers.

Pro-Struct 875 Cementitious Waterproofer is a waterproofing system for concrete, cementitious and masonry substrates. It penetrates the surface through moisture absorption and reacts with the free lime forming a hard crystalline material which blocks the pores against water penetration and becomes an integral part of the structure.

It provides positive and negative waterproofing against dampness and ground water as well as hydrostatic pressure.

TYPICAL APPLICATIONS:

- Basements, lift walls and tunnels
- Sewage tanks, effluent pits
- Reservoirs, canals
- Water towers, silos
- Subways, manholes
- Pre-stressed and precast concrete units

ADVANTAGES:

- Pre-blended.
- Ease of application – brush applied
- Blocks passage of water – seals pores
- Can be applied to wet surfaces or green concrete
- Non-toxic and non-tainting

TYPICAL PROPERTIES:

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Colour	Grey powder
Specific Gravity	2000kg/m ³
Working time	± 60 minutes at 20°C
Setting time	Similar to concrete
Overcoating time	Minimum 12 hours, depending on temperature
Application temperature	10°C to 35°C
Durability	Similar to that of normal Portland Cement
Toxicity	Non-toxic
Drinking water	Will not taint water once product has cured
Yield	One 25kg bag of Pro-Struct 875 Cementitious Waterproofer when mixed with 6 litres of water will yield ± 14 litres of slurry

APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

DIRECTIONS FOR USE:

SURFACE PREPARATION:

Surfaces to be treated must be free of dust, oil and grease. Any curing compound, mould oil, release agent or other surface treatment must be removed. Remove any laitance from concrete and weak delaminating mortar from brickwork. Brush down and clean off, leaving a sound substrate providing adequate bond for the applied slurry. Preparation is usually carried out using mechanical tool such as scabblers for floors and bush hammers for vertical surfaces. Static cracks greater in width than 1mm must be chased out, dampened down and repaired with a dry pack consistency of Pro-Struct 875 Cementitious Waterproofer.

Any water leaks must be stopped with Pro-Struct 548 (see application procedure below):

- Each leaking area must be cut back to sound material, leaving a chase approximately 15mm deep to receive the Pro-Struct 548.
- 1kg of Pro-Struct 548 must be mixed with approximately 0.25 litres of water with a slow speed mixer (mixing time a maximum of 15 seconds).
- Immediately after mixing, Pro-Struct 548 must be applied to the appropriate area by working into place and holding firmly for approximately 2 minutes (rubber gloves should be worn).
- Pressure is to be maintained without disturbing the material until it has set.
- Excess material must be removed by grinding.

The sealed leaks must be left for 1 hour at 25°C, after which Pro-Struct 526-MCI can be applied on a saturated pre-wetted surface.

MIXING:

Mix 1 x 25kg bag of Pro-Struct 875 Cementitious Waterproofer to 4.5 to 6 litres of water to produce a suitable brush-on mixture. Using a suitable container, add the powder to the liquid and stir to produce a thick slurry. Whilst applying the product, occasionally stir the slurry to prevent settlement of the solids within the container. Do not re-temper the product once it has started to cure.

APPLICATION:

Prior to application, pre-saturate with water, the area to be treated and ensure any free standing water is removed before commencing with the coating. Apply the material in 2 or 3 coats, each coat at right angles to the other. Pressureless water coverage should be to 2 to 4kg/m² (1.5 to 2mm thick). Water under pressure coverage should be 4 to 6kg/m² (2 to 3mm thick). Allow 12 hours curing between each and subsequent coats.

CURING:

Pro-Struct 875 Cementitious Waterproofer must not dry out too rapidly and should be kept damp for a minimum of 2 to 3 days.

WATCHPOINTS:

- Protect treated areas from mechanical damage, apply a mortar screed or render.
- Protect newly treated surfaces from frost and rain.
- Use rubber or plastic gloves to protect against cement burns.

PACKAGING:

Pro-Struct 875 Cementitious Waterproofer is supplied in a bag containing 25kg of powder.

CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NON-FERROUS TOOLS AND TO WEAR CONDUCTIVE AND NON-SPARKING SHOES.



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