

Topkrete Penetra Seal

Crystalline Waterproofing Coating

Description

Topkrete Penetra Seal is a premium-grade, cementitious crystalline waterproofing coating designed to permanently protect concrete structures. When applied to dampened concrete, Topkrete Penetra Seal penetrates into the substrate and reacts with moisture and unhydrated cement particles to form insoluble crystalline structures. These crystals block micro-capillaries and hairline cracks up to 0.4 mm, providing a long-lasting, integral waterproofing barrier.

Topkrete Penetra Seal becomes an integral part of the concrete matrix and remains active for the life of the structure.

Uses & Application

Suitable for both **positive and negative side** waterproofing.

- Basements, retaining walls, lift pits
- Water tanks and reservoirs
- Lift pits and sump pits
- Tunnels and underground structures
- Concrete roofs and slabs
- Sewage and wastewater structures
- Swimming pools
- Foundations and pile caps

Features & Benefits

- Permanent integral waterproofing
- Self-sealing of micro-cracks (up to 0.4mm)
- Allows concrete to breathe (vapour permeable)
- Resistance to hydrostatic pressure
- Non-toxic, suitable for potable water applications
- Easy brush, spray, or slurry application
- Compatible with new and existing concrete
- Low maintenance and long service life

Technical Data

Property	Value /Description
Appearance	Grey cementitious powder
Bulk Density	1.30 – 1.40 g/cm ³
Mixing Ratio	5.0 – 6.0 L water per 20kg
Pot Life	Approx. 30 – 40 minutes
Crack Bridging (self-sealing)	Up to 0.4mm
Waterproofing Pressure Resistance	Up to 12 bar (positive) / 7 bar (negative)
Adhesion to Concrete	0.8 N/mm ²
pH	Alkaline
Toxicity	Non-toxic, suitable for potable water

Surface Preparation

- Substrate must be sound, clean and saturated-surface-dry.
- Remove laitance, duct, oil, curing compounds, paint and loose particles.
- Open up crack, honeycombs and voids; repair with crystalline repair mortar if needed.
- Ensure active leaks are stopped using a rapid-setting plugging compound.

Mixing

- Add Topkrete Penetra Seal powder into clean water while stirring.
- Mix using a slow-speed drill (400-600 rpm) for 2 – 3 minutes until smooth.
- Do not over-water
- Use mixture within pot life

Application

Method: Brush, broom or spray

- Pre-wet concrete to SSD Condition
- Apply first coat uniformly (approx.0.75kg/m²)
- Allow 2 – 4 hours curing (surface must remain damp)

- Apply second coat perpendicular to the first (approx. 0.75 kg/m²)
- Protect from direct sun, wind and rain for at least 24 hours.

Curing

- Keep surface moist for 48 – 72 hours after application
- Coverage may vary depending on substrate porosity and roughness

Limitations

- Not suitable for expansion joints or dynamic cracks
- Do not apply on painted or contaminated surfaces
- Minimum substrate temperature: 5°C
- Protect from frost, heavy rain and rapid drying

Safety & Handling

- Contains cement; may cause skin irritation
- Use gloves, goggles, and protective clothing
- Avoid inhalation of dust
- Wash with clean water after contact

Packaging

- 25 kg bags
- Store in cool, dry place
- Shelf life : **12 months** unopened packaging

Safety Instruction

It is recommended to use protection glove and goggle and take precaution for handling the product.

Technical Support

Topkrete offers a technical support package to specifies, end-users and contractors, as well as on site technical assistance.

Additional Information

Topkrete manufacturers and offers a wide range of complementary products which includes waterstop, waterproofing, products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spelled concrete are available.

Warranty

Topkrete Sdn Bhd warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to TOPKRETE SDN BHD shall be limited to replacement of the material proven to be defective, and TOPKRETE SDN BHD shall in no case be liable otherwise or for incidental or consequential damages. **TOPKRETE SDN BHD MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.

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