

TOPSEAL AQ 210

Single-Component Water-Based Polyurethane Liquid-Applied Waterproofing Membrane

Description

Topseal AQ 210 is a high-performance, ready-to-use, single-component, water-based polyurethane liquid-applied waterproofing membrane designed to form a seamless, elastic and durable waterproofing barrier. Based on advanced polyurethane dispersion (PUD) technology, it provides excellent adhesion to properly prepared substrates and long-term protection against water ingress.

Once cured, TOPSEAL AQ 210 forms a flexible waterproof membrane with good crack-bridging ability, making it suitable for both new construction and refurbishment work. Its water-based and low VOC formulation makes it suitable for projects requiring environmentally considerate application.

Uses

TOPSEAL AQ 210 is suitable for waterproofing:

- Reinforced concrete flat roofs
- New and existing roofs
- Terraces and balconies
- Walkways
- Wet areas
- Bathrooms and kitchens
- Bridge decks
- Tunnels
- Podium decks and similar exposed areas

Advantage

- Ready-to-use, single-component system
- Water-based polyurethane technology
- Low VOC content
- Solvent-free
- Seamless waterproofing membrane
- Easy application by roller, brush or spray
- Excellent adhesion to concrete substrates

- Good elasticity crack-bridging performance
- Resistant to water penetration
- Suitable for exposed applications
- Suitable for complex surface details and penetration

Technical Properties

Composition	Polyurethane Dispersion (PUD)
Appearance	Liquid
Elongation at Break	> 600%
Tensile Strength	2.5 N/mm ²
Crack Bridging Ability	1.0 mm, no cracking
Adhesion Strength to Concrete with Primer	> 1.5 N/mm ²
Shore A Hardness	80
Overcoating Time	3 – 4 hours
Light Pedestrian Traffic	Approx. 24 hours
Full Cure	Approx. 7 days

Notes: Test results shown and typical laboratory values achieved under controlled conditions. Actual performance may vary depending on substrate conditions, site environment and application method.

Application Information

Surface Quality

The substrate must be:

- Sound and structurally stable
- Clean and dry
- Free from dust, laitance, oil, grease, curing compounds, loose particles, paint and contaminants.
- Free from standing water before application

All voids, blowholes and honeycombs shall be repaired using a suitable repair mortar such as **Topgrout 315** before application.

Cracks and movement joint shall be treated appropriately. Static cracks should be repaired prior to coating. For cracks and junctions, use **Topflex PU Sealant** where required, followed by reinforcement with suitable fabric embedded into the wet membrane over critical areas.

Surface Preparation

Proper substrate preparation is essential for optimum performance.

- Remove weak concrete and all unsound materials
- Repair defective areas before membrane application
- Ensure corners, upturn, penetrations and drainage outlets are properly detailed
- Highly porous substrates may require a suitable primer before application.

Application Method

TOPSEAL AQ 210 may be applied by:

- Roller
- Brush
- Airless spray

Stir thoroughly before used. Apply evenly to the prepared substrate in a continuous film. Apply in **at least 2 coats**, ensuing the first coat is dry before applying the next coat. Additional coats may be required depending on substrate roughness, porosity and project specification.

For areas subject to movement or where reinforcement is required, embed reinforcing fabric into the first wet coat and fully cover with subsequent coats.

Consumption

Recommended consumption is approximately:

0.4 – 0.8 kg/m² in 2 to 3 coats

Actual consumption will depend on substrate porosity, surface profile and method of application.

Cleaning

Clean tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

Packaging

- 5 kg pail
- 20 kg pail

Storage

Store in unopened original packaging in a dry, cool and covered place. Protect from direct sunlight, frost and excessive heat.

Self-Life

12 months from the date of manufacturer when store properly in original unopened packaging.

Health and Safety

Use protective gloves, goggles and suitable protective clothing during handling and application. Avoid contact with skin and eyes. Ensure adequate ventilation during application in enclosed areas.

Technical Support

Topkrete provides technical support to specifiers, contractors and end users, including project consultation and site technical assistance where required.

Complementary Products

Topkrete also manufacturers and supplies a wide range of complementary construction products, including:

- Waterproofing systems
- Water stops
- Grouts
- Anchoring materials
- Repair mortars
- Specialized flooring systems

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.

Important Note

Topkrete products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Topkrete endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

Topkrete Sdn Bhd (597943-M)

Office : 19-G, Blok A, Jalan Atmosphere 3,
Pusat Perniagaan Atmosphere,
Bandar Putra Permai,
43300 Seri Kembangan,
Selangor Darul Ehsan. Malaysia
Tel: +603- 8957 8999 Fax: +603-8959 1661
Email: info@topkrete.com
www.topkrete.com

Factory : No.3, Jalan Utama 1/12,
Taman Perindustrian Puchong Utama,
47100 Puchong,
Selangor Darul Ehsan. Malaysia.
Tel : +603-8063 1883 Fax: +603-8063 1983