

TOPSEAL AQ 240 PRO

UV-Resistant Elastomeric Polymer Waterproofing Membrane (Exposed System)

Description

Topseal AQ 240 PRO is a high-performance, one-component, water-based polyurethane modified waterproofing membrane formulated for fully exposed applications.

It cures to form a seamless, highly elastic, UV-resistant membrane with excellent crack-bridging ability, weather resistance, and long-term durability under tropical conditions. The system is designed to be applied without protective screed, making it ideal for exposed roofs, balconies, and podium decks.

Uses

Exposed Applications

- Reinforced concrete roofs
- Balconies and terraces
- Podium decks
- Car porch roofs

Non-Exposed Applications

- Wet areas (bathrooms, toilets, kitchens)
- Planter boxes
- Concrete gutters

Advantage

- One-component, ready-to-use
- UV-resistant (no additional topcoat required)
- Seamless waterproofing system
- Excellent crack-bridging performance
- High elasticity (> 700%)
- Good adhesion to concrete and masonry
- Breathable (vapour permeable)
- Resistant to tropical weather conditions
- Easy application and maintenance

Classification & Compliance

EN Standards

- **EN 1504-2** – Surface protection system (C – MC + PR)
- **EN 1062-7** – Crack bridging
- **EN ISO 7783** – Water vapour permeability
- **EN 1062-3** – Water absorption

ASTM Standards

- ASTM D412 – Tensile & elongation
- ASTM D4541 – Adhesion
- ASTM E96 – Water vapour transmission
- ASTM D5385 – Waterproofing performance
- ASTM G154 – UV resistance

Product Information

Chemical Base	Water-based Polyurethane
Appearance	Viscous Liquid
Color	Grey/ White
Packaging	20kg pail
Shelf Life	12 Months
Storage	+5°C to +35°C

Technical Data

Property	Value	Standard
Solid Content	~70%	ASTM D2369
Tensile Strength	≥ 2.5 N/mm ²	ASTM D412
Elongation at Break	≥ 700%	ASTM D412
Adhesion to Concrete	≥ 1.0 N/mm ²	ASTM D4541
Crack Bridging (static)	≥ 2.0 mm	EN 1062-7
Water Vapour Permeability	Class I / II	EN ISO 7783
Water Absorption	< 0.05 kg/m ² ·h ^{0.5}	EN 1062-3
Hydrostatic Resistance	No leakage	ASTM D5385
UV Resistance	No cracking after 1000 hrs	ASTM G154
Service Temperature	-10°C to +70°C	-

System Build-Up (Exposed System)

Layer 1 – Primer

- Topseal AQ 240 PRO diluted with 5–10% water
- Consumption: 0.2 – 0.3 kg/m²

Layer 2 – Base Coat

- Topseal AQ 240 PRO
- Consumption: 0.6 – 0.8 kg/m²

Layer 3 – Reinforcement

- Polyester mesh / fiberglass fleece
- Embedded into wet coating

Layer 4 – Intermediate Coat

- Topseal AQ 240 PRO
- Consumption: 0.6 – 0.8 kg/m²

Layer 5 – Finish Coat

- Topseal AQ 240 PRO (UV-resistant finish)
- Consumption: 0.4 – 0.6 kg/m²

System Performance

Total Consumption	2.0 – 2.8 kg/m ²
Dry Film Thickness	1.5 – 2.2 mm
Crack Bridging	≥ 2.0 mm (static crack)
Waterproofing	Fully impermeable
UV Resistance	Excellent
Service Life	10 years
Traffic	Light foot traffic

Application Information

Substrate Requirements

- Minimum 28 days cured concrete
- Moisture content < 6%
- Clean, dry, and sound

Surface Preparation

- Mechanical grinding or wire brushing
- Repair cracks and voids
- Remove contaminants

Application Conditions

Parameter	Requirement
Temperature	+5°C to +35°C
Humidity	< 85%
Substrate	Dry

Application Method

- Roller / brush / airless spray
- Apply minimum 2–3 coats
- Cross-apply coats

Recoating Time

- 4 – 12 hours

Full Cure

- 24 hours

Detailing Requirements

- Reinforce all corners and joints
- Treat pipe penetrations and drains
- Use mesh reinforcement for critical areas
- Apply PU sealant for movement joints

Limitations

- Not suitable for permanent water immersion
- Not suitable for negative-side waterproofing
- Heavy traffic requires protective screed
- Do not apply during rain

Compatibility

Substrate	Suitability
Concrete	✓
Screed	✓
Brickwork	✓
Metal	Requires primer
Bitumen	Subject to testing

Storage

- Store dry and shaded
- Protect from freezing

Health & Safety

It is recommended to use PPE and avoid contact with skin and eyes and take precaution for handling the product.

Technical Support

Topkrete offers a technical support package to specifiers, 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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