

TOPKRETE POLYUREA

Two Component, Spray-applied Pure Polyurea Waterproofing Membrane

Description

Tokrete Polyurea is a two component spray applied aromatic, pure polyuria elastomer that is derived from reaction product of an isocyanates component and an amine component.

Uses

- Concrete and metal roofing
- Concrete slab
- Retaining wall
- Swimming pool and ponds
- Walkway and balconies
- Car park decks
- Lining for sewerage and water treatment plant
- Truk beds
- Wood structure

Advantage

- High impact resistance.
- Very fast curing, gel time in second.
- Excellent crack bridging properties.
- Excellent chemical resistance.
- Excellent abrasion resistance and high tensile strength.
- Seamless.
- Excellent thermal stability.
- 100% solid.
- No VOC

Physical Properties

Technical Information

Tensile Strength	≥ 16 N/mm ²
Elongation at Break	400%
Shore A Hardness	90
Tear Strength	≥ 55 N/mm ²
Adhesion	> 2 N/mm ²
Impermeability (0.3mPa/30 min)	Impervious
Chemical Resistance	No corrosion, No blister, No spalling
Low Temperature Flexibility	No cracking

Product Information

VOC	0
Gel Time/s	9
Tack Free/s	20 -30
Mix Ratio v/v	1 : 1
Thickness	2 mm
Color	Grey

Application Instruction

Substrate Requirement

The concrete substrate shall be sound and with the minimum of compressive strength of 25 N/mm².

The substrate shall be full cure and necessary to check the moisture content prior to the application of the product.

The substrate shall be clean, dry and free of contaminants such as dirt, oil, grease, coating and surface treatment.

The concrete surface shall be prepared mechanically using scarifying equipment to achieved an open textured surface.

All the crack, honeycomb, void and etc. shall be repair prior to the application.

Apply suitable primer to the substrate.

Application

Mixed dose with suitable electrical mixing equipment as follow:

- Isocyanate heater temperature: 70 -75°C
- Amine heater temperature: 70 -25°C
- Hose temperature: ± 70°C
- Operating time: 2,500 – 3,000 PSI
- Used mechanical purge chamber.
- Spray trial shall be done prior to the application.
- Please refer to Topkrete Application manual.

Cleaning

Clean all the equipment with thinner immediately after used. Hardened material can only removed mechanically.

Self-Life

6 months store in a dry condition.

Packaging

Part A: 220 kg/drum

Part B: 200 kg/drum

Technical Support

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

Health & Safety

For further information, refer to the product Material Safety Data Sheet, available upon request.

Additional Information

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

Warranty

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