PolyCoat FloorFlex

Advanced Car Park Deck Crack Bridging Polyurethane Membrane

Description

PolyCoat FloorFlex is a premium-grade, two-component, aromatic, solvent-free polyurethane waterproofing membrane designed to provide highly flexible and crack-bridging protection for concrete surfaces.

The elastomeric membrane forms part of the PolyFloor PU System and delivers outstanding waterproofing performance, durability, elasticity, and resistance to cracking, making it particularly suitable for exposed and trafficable deck applications.

Key Features

- Highly flexible membrane system
- Highly crack-bridging performance
- Durable waterproof protection
- Solvent-free formulation
- High elongation properties
- Excellent tear resistance
- Suitable for exposed applications
- Compatible with flooring toppings

Area Of Use

- Car park decks and podium slabs
- Trafficable waterproofing systems
- Concrete roof and exposed deck applications
- Flexible waterproofing beneath protective toppings
- Crack-bridging membrane systems
- Internal and external concrete protection works

Technical Properties

Appearance	Liquid
Color	Grey
Density	~ 1.20 Kg/l
Tensile Strength	~ 3 N/mm²
Elongation at Break	~ 500%
Crak Bridging	~ 3.20 mm
Shore A Hardness	78
Tear Resistance	~ 16 KN/m
Pot Life (25°C)	~ 30 Minutes
Tack Free	After 5 Hours (25°C)
Overcoating	24 Hours
Consumption	1-2 m² / l

All values are nominal and subject to a tolerance of ± 5-10%

Packaging

PolyCoat FloorFlex is available in:
4.5 Liters Kit
15 Liters Kit

Storage

Keep the product in dry and sheltered place at temperature between +5ºC to +35ºC. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Standard Compliance

- ASTM D624
- ASTM C836
- ASTM D2240

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Application Procedure

Surface Preparation

All substrates must be structurally sound, clean, dry, and free from oil, dust, laitance, loose particles, coatings, and contaminants that may affect adhesion.

Remove all projections and rough areas to achieve a level surface. New concrete must be dry, with moisture content below 4%.

Priming

Prepared substrates should be primed using PolyPrime EP prior to membrane application.

The membrane should only be applied over properly prepared and primed surfaces in accordance with the primer recommendations.

Mixing Procedure

PolyCoat FloorFlex is supplied as a two-component kit consisting of a base component and pigmented curing agent.

Stir both components briefly before use, then add the entire curing agent into the base component and mix using a slow-speed heavy-duty drill fitted with a spiral mixing paddle for a minimum of 3 minutes until a uniform consistency and color are achieved. Hand mixing is not recommended.

Application Instruction

Immediately after mixing, apply PlyCoat FloorFlex evenly using a squeegee and/or medium pile roller onto the prepared and primed substrate.

Ensure compliance with the recommended primer overcoating intervals during installation.

Additional coatings or protective toppings may be applied once the membrane becomes tack free.

Curing

The membrane becomes tack free after approximately 5 hours at +25°C. Additional coatings may generally be applied after tack-free condition is achieved, while maximum overcoating time is approximately 24 hours.

Quality & Care

All products provided by PolyCrete are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001, ISO 14001 & ISO 45001.

Health & Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor. For further information or particular use, contact PolyCrete Technical Department.

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