

Product Description

PU ROOFKOTE-ES is elastomeric hybrid polyurethane liquid applied waterproof membrane designed primarily for used as a roofing waterproof and heat reflection. The high elongation material allows membrane to seal cracks and prevent water. It contains Solar Reflective Pigment which reflects heat entering the building. The membrane protects the building from water damage and helps extend the service life of the protected structure.

Uses & Applications

- Waterproofing of Concrete deck roofing.
- Balcony membrane system.
- Exterior wall of building.
- Coat over minor cracks on concrete surface.

Key Benefits

- Great elasticity, durability and toughness allow material to elongate and stay intact on the concrete surface of building in case cracks occurred due to vibration or temperature.
- Monolithic membrane. Provide an excellent water resistance and weather endurance abilities.
- Water based, non-toxic.
- One component, easy to handle, no mixing required.
- High strength, no need of fiber reinforcement.
- Crack bridging ability, covering hairline cracks.
- Low VOC.
- Contains SRP, lower building temperature.
- Excellent UV resistance.

Technical Data

CHARACTERISTICS	RESULTS	TEST METHOD
Solid Content	60 ± 2 %	-
Density	1.25 ± 0.1	ASTM D1475
Viscosity	20,000-25,000 cps	Brookfield Viscometer
Hardness	55-65 Shore A	ASTM D2240
Elongation	800 - 900 %	ASTM D412
Tensile Strength	1.45 N/mm ²	ASTM D412
Bond Strength	1.4 MPa	-
Crack Bridging	2 mm	ASTM C1305
Recovery	150% pass	

Technical Data

CHARACTERISTICS	RESULTS	TEST METHOD
Resistance to ponding water	30 days	
Heat Reflectance	90%	JIS R3106
Working Temperature	5 °C – 35 °C	-
Drying Time	1-2 hours	-
Full Cure Time	7 days	-

Application Instructions

SURFACE PREPARATION

- Newly poured concrete must be at least 7 days old.
- All surfaces must be clean, dry, free from surface contaminants and structurally sound. Surface preparation may be carried out by the use of pressure water cleaning, power buffing or scraping. Mold and fungus infested walls should have sodium hypochlorite applied to the substrate prior to pressure washing.
- Any structural cracks should be saw cut and struck smooth with a cementations or low shrink grouting compound.

PRIMING

- Add clean water 20-30% to mix for primer.
- Allow primer to dry before painting.

PAINTING

- Thoroughly mix material well with low-speed electric stirrer.
- Apply by brush, spray or roller. Apply PU ROOFKOTE-ES in multiple coats to coverage of no more than 2 m² per kg. otherwise the film will spread too thin.
- Allow the product to dry between coats (usually 2 hrs. depending on weather condition). Apply the later coat in the perpendicular direction with the previous coat.
- To achieve smooth finish, 5-10% of clean water may be added to mix for topcoat.

Consumption Rate	Coat	Total DFT.	Coverage per pail
0.5-0.7 kg/m ² /coat	2-4	700-1000 micron	10-13 m ²

* Coverage rate may vary due to porosity of surface including application method. Field trials are recommended.

CLEANING

- Tools and equipment should be cleaned whilst screed is still wet using clean water. Hands and skin should be cleaned immediately with clean water.

WATERPROOFING SYSTEM

Safety Instructions

Precaution: Avoid working on rainy day. Before using PU ROOFKOTE-ES, please ensure you have received and read carefully both the hazard level applied on the container and the relevant material safety datasheet.

Wear appropriate protective equipment such as gloves, safety glasses or goggles, protective clothing during use. In case of eye contact: promptly wash eyes with plenty of water. Continue to rinse for at least 15 minutes and consult physician immediately.

Packing

20 kg. per pail.

Standard color available in white, grey and green.



* Colors may vary from actual product due to print quality.

Storage & Shelf Life

Material must be kept in-door at room temperature, avoid expose of direct sunlight. Product Shelf life is 12 months in unopened package and under suitable storage condition.

Disclaimer: The information provided in this document is based on our knowledge and experience of the product. In actual application results may vary because of site conditions, application methods and other factors that beyond our control. Users are recommended to test out product performance before actual use. Any data contained in this document, including our sale person or staff consultation is in no way constitutes a warranty relative to the use of our products. Our general terms and conditions of sales shall prevail. The superseded version of this datasheet may be issued without prior notice. Customers and users are encouraged to check with our staffs for the latest version of this document.

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