

TECHNICAL DATA SHEET FOR

PROOF-SEAL 2305**1K Polyurethane Root-Resistant Coating**

PROOF-SEAL 2305 is a single component liquid-applied polyurethane elastomeric coating with root-resistant properties. It is a high-performance coating that forms a flexible, tough and high build waterproofing barrier.

FEATURES

- Root-resistant
- Seamless
- Single component, self-priming
- Easy to apply

APPLICATION AREAS

- Planters
- Green roofs
- Balconies
- Podiums and exposed decks

PHYSICAL PROPERTIES

Chemical Composition	Polyurethane elastomer
Appearance	Grey Liquid
Specific Gravity	1.45 ± 0.05
Solid Content	>85%

PERFORMANCE DATA

Properties	Test Method	Typical Value
Tensile Strength	ASTM D412-16	> 2.2 MPa
Elongation at Break	ASTM D412-16	> 700%
Resistance to Hydrostatic head	BS EN 1928	No leakage at 5 Bar
Water Vapour Transmission	ASTM E96	>0.40 g/m ² /h
Water Penetration Test	DIN 1048-5	No leakage at 5 Bar
Hardness (Shore A)	ASTM D2240-15	58
Crack Bridging	ADM/CE/001 (ASTM C836)	Passed
Adhesion to Concrete	ASTM D7234-12	> 1.3 MPa
Resistance to Root Penetration	DIN 4062	Passed

SURFACE PREPARATION

Prepare the substrate to ICRI Concrete Surface Profile 1 to 5. Surface must be sound and clean, free of curing compound, mould release agent, cement laitance, oil, grease and contaminants. All cracks-lines, holes, honeycomb or unsound surfaces must be filled with polyurethane sealant or repair mortar. All anchor bolts are to be cleaned and sealed with polyurethane sealant or epoxy putty.

APPLICATION METHOD

Equipment to be used for application are spray, roller or brush. Application must be made uniformly to avoid pin holes. Concrete moisture content shall not exceed 8%.

Application

Apply **PROOF-SEAL 2305** at a rate of 0.6 - 0.75kg/m²/ coat. A minimum of 2 coats is recommended, with each subsequent coat applied perpendicularly to the previous coat. Ensure each coat is tack-free prior to application of subsequent coat. A dry film thickness of 1.2mm is recommended for horizontal areas. After application, surface must be protected with screed or protection board within seven days after application.

Please contact Nippon Paint Singapore representative for the latest detailed drawing and application instructions (Method Statement).

PACKING AND COVERAGE

Pack Size:

- 20 Kg

Theoretical Coverage:

- 1.2-1.5 kg/m² to achieve a dry film thickness of 1.2mm for horizontal areas

STORAGE AND SHELF LIFE

Storage:

- **PROOF-SEAL 2305** should be stored at room temperature between 5°C to 25°C in a cool, dry and away from direct sunlight and rain, and at least 2m away from heat source.

Shelf Life:

- Expected shelf life is 10 months with the above-mentioned storage condition

HEALTH AND SAFETY

Refer to the product Safety Data Sheet for more information

DISCLAIMER

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