

The Tough, Durable, Multi - Usage Seamless Liquid Membrane

TWO PART POLYURETHANE

PRODUCT DESCRIPTION

Duraroof (Grade AD451/BII) is a two-component polyurethane liquid membrane. It self-cures to form a seamless, impermeable elastomeric membrane which bonds tightly to various substrates, preventing the lateral transfer of water.

Duraroof is easily mixed at the job site and applied using a brush/roller, squeegee, trowel, or spray equipment, providing a tough, durable and waterproof rubber membrane without the need of overlaps, splices and terminations.

TYPICAL APPLICATIONS

■ BUILDING INDUSTRY

■ ROOFING

Duraroof creates a totally waterproof, seamless and well-adhered membrane over:

- Plywood
- Metal
- Reinforced Concrete
- Cement/Sand Screeds
- Sprayed Foam Insulation
- Insulation Boards
- Built-up Roofing
- Vents, Ventilators, etc

• WATERPROOFING

- Bathrooms & Toilets
- Kitchens
- Utility and Mechanical Floors
- Foundations
- Basement Walls
- Floor Slabs
- Concrete Piling
- Water Tanks
- Swimming Pools
- Fountains
- Promenades, Piazzas, Bridge & Parking Decks
- Silos



• ADVANTAGES

- Rapid Application - once the two components are mixed together, the product can then be either squeegee, spray or hand/roller brush applied for the Horizontal area, or hand/roller brush or trowel applied for the Vertical area, to the desired thickness.
- Non-cracking or crazing
- Seamless - No on-site seaming or overlaps required, thus low maintenance.
- Labour and cost saving

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DURAROOF® FLUID MEMBRANE AD451/BII

- High solid Contents - More than 90% Solids composition
- Easy Repair - If a cured membrane is damaged by traffic, tools, etc, it is easily repaired by spot application after recommended preparatory work
- Multi-usage - Versatile application
- UV Stability - Good stability to ultra violet rays
- Thermal Stability - Remains flexible under severe temperature conditions
- Abrasion resistant

Mixing and Application:

Accurately mix Part B with Part A and stir thoroughly, applying directly to the substrate.

APPLICATION

SURFACE PREPARATION

All surfaces should be clean and dry and free from dust, dirt, loose material and algae.

Priming:

Substrates of metal must be primed with Duraroor Primer at the rate of 4-6m²/Lit.

Do not prime new sand/cement screed or concrete surfaces.

Laying:

Do not apply at temperatures below 5°C.

If necessary, pipe penetrations can be reinforced with polyester scrim embedded into the first coat of Duraroor membrane.

Duraroor is recommended to be applied in two coats to provide a total dry film thickness of 1.2mm.

TYPICAL PHYSICAL PROPERTIES

Property	Unit	Test Method	Typical Values
Tensile Strength	N/mm ²	ASTM D 412	>1.40
Elongation at Break	%	ASTM D 412	>450
Tear Strength	N/mm	ASTM D 624	>14
Hardness (Shore A)	-	-	>40
Water Vapour Transmission	g/h/m ²	ASTM E 96	0.4
Adhesion to Concrete	N/mm ²	Elcometer	>1.0
Recovery from 100% elongation	%	ASTM D 412	>90

** values advertised are subject to ±10% tolerance*

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