



## POLYURETHANE WATERPROOFING MEMBRANE-WA

CODE: D011

### Description:

D011 DURABUILD POLYURETHANE WATERPROOFING MEMBRANE-WA is a high performance, UV stable, eco-friendly, flexible, single component, water based waterproofing membrane for exterior concrete surface. It cures to a permanently flexible seamless membrane with good adhesion to various range of substrates. It does not embrittle with age or exposure to UV light. Hence it does not crack due to its flexible properties.

### Areas of application:

Durabuild Polyurethane Waterproofing Membrane-WA is designed for crack bridging, strong adhesion and chemical resistance. It is extensively used in concrete structures, render brickwork and plasterboard. It can be used to waterproof areas like tank, terraces, roof decks, balconies, bathrooms, kitchens, parking garages, truck, piping and processing equipments.

### Features and Benefits:

- Excellent adhesion to concrete.
- Easy to apply-single component so no mixing problem.
- Water based and non toxic - Environment friendly)
- Easily Repairable.
- Elastomeric
- UV resistant, chemical resistant and weather resistant- non yellowing of colour.
- Absolute impermeability, elongation and flexibility
- Excellent resistance to fungal growth.
- Excellent tear and abrasion resistance
- Does not sag or flow down in joints.
- No staining of cementitious substrate.
- Fast drying

### Application Method:

#### 1 Surface Preparation

- Any large fins or protrusions, which are likely to cause film discontinuities, shall be removed by chipping or power grinding.
- Surface should be sound, clean and free of dust oil, grease and curing compound. Loosly adhered particles like cement smears should be cleaned with a wire brush.
- Cracks must be sealed by making V groove & filling with Fixocrete SBR polymer mortar.

#### Concrete

- All new concrete surfaces must be fully cured with semi rough surface appearance. Rendered surface must be allowed to cure for minimum 7 days prior to the application of the product.
- Metal Surfaces: Ensure that the surface is rust free with all hairline cracks being filled with a suitable gap filler.



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#### Priming

- Open the container and stir well with a mechanical stirrer to attain uniform consistency.
- Mix Durabuild Polyurethane Waterproofing Membrane-Wa with clean portable water in the ratio of (1:1) in a clean container and apply as a priming coat using brush, roller depending on the size of the area to be primed.
- Allow the primer to dry before starting the final waterproofing with Durabuild Polyurethane Waterproofing Membrane-WA.

#### 2 Application

- Stir the container thoroughly.
- Apply Durabuild Polyurethane Waterproofing Membrane-WA at minimum thickness of 1 mm of WFT in 3 coats.
- Apply it directly from the container using brush or roller as recommended.
- Apply two or three coats depending on the specification.
- Maintain a minimum interval of 4-5 hours between the successive coats. The coating should be touch dry before going for next coat.
- Protection must be provided by using 200 gsm Geotextile Separation membrane or by applying protection plaster admixed with D001 Integral Waterproofing Compound

#### Precautions and Limitations:

- All corners, gaps, joints and outlets shall be coated with two extra coats.
- Always provide a proper protection and slope after applying this coating.
- Never dilute coating with water for ease of application
- Stir well before use.

#### Standard Compliances:

ASTM D 6083-97: Std Specs for Liquid applied waterproof coating; ASTM D 2370-98- Tensile Strength and Elongation; ASTM D 4541 – Adhesion bond strength,

#### Technical data

PARAMETERS	PROPERTIES	SPECIFICATION
Appearance Colour (after dry)		Pasty White or Grey
Density @ 25°C		1.25 – 1.30
Weight Solid, %		>78
pH		8 (approx.)
Viscosity, kU		95±5
Impact Resistance		No cracking or delamination
Resistance Temperature		0 to 60°C
Bond Strength, MPa	ASTM D4541	>2
Tensile Strength, MPa	ASTM D2370-98	>2
Elongation, %	ASTM D2370-98	>400
Tack free @ 30°C, hours		3 to 4
Water Vapour permeability , Perms	ASTM E96:2016	>0.3
Shore A Hardness	ASTM D2240 2015	>65

#### Coverage

PRIMER: 8-10 m<sup>2</sup>/kg/coat depending on texture and porosity of the surface.  
Polyurethane Waterproofing Membrane-WA: 1.6 kg/m<sup>2</sup> in 3 coats depending on texture and porosity of the surface for 1 mm thickness

#### Packaging:

25 kg pails

#### Shelf Life:

Shelf life is 12 months from the date of manufacturing in unopened condition. Store in a cool & dry place.

#### Health & Safety:

- Skin Contact: Wash skin with soap & water. Remove contaminated clothes.
- On eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists.
- Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.



Centre for Research, Education and  
New Product Development  
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#### OUR PRODUCT RANGE



**IMPORTANT NOTE:** The product information and application recommendations for final use of Durabuild's products, are given in good faith based on Durabuild's vast knowledge and experience of products when properly stored, handled and applied under standard conditions as per Durabuild's recommendations. The user of the product must conduct trials and test to ensure the suitability of the product for intended application and purpose. Owing to the difference in other materials, actual site conditions and on-site workmanship factors which are beyond our control, the company shall not accept any liability either directly or indirectly arising out of use of our products whether or not in accordance with any advice, specification, recommendation or information given by it. Durabuild reserves the right to customise the properties of the product through minor adjustments or fine tuning in the formulation to meet the exact site requirements testimony to its continuing research and development. Users must refer to the most recent issue of product data sheet, copies of which can be made available on demand. Durabuild products are manufactured as per stringent national/international quality standards and are guaranteed against any manufacturing defect. All products are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request.



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