



## MICROFIBER REINFORCED ELASTOMERIC WATERPROOFING

CODE: D016

### PRODUCT DATA SHEET

EDITION: 02.05.2017

#### Description:

**D016 DURABUILD MICROFIBER REINFORCED ELASTOMERIC WATERPROOFING** is a heavy duty liquid applied waterproofing membrane system, composed of specially developed highly elastic & resilient acrylic polymers, properly selected & graded fillers, lightfast & weather durable pigments, micro-fibres, additives & superior quality biocidal in water medium. It is typically used as a 3 layer coating system where the performance can be enhanced for large roofs, by providing a fibre mesh that is sandwiched between the coats.

#### Uses:

- Building roofs / Terraces— Flat & sloping.
- Over existing cementitious waterproofing treatments like brickbat coba, concrete screeds, acrylic coatings, sound APP membranes etc.

#### Features:

- No need to remove existing sound brickbat coba, plaster concrete surface
- Provides higher dry film thickness of 1.2 mm in three coat application
- Forms highly elastic & resilient coating so helps to withstand the structural movements
- Bridges cracks up to 2 mm width
- Higher tensile strength, tear resistance & bond strength with cementitious substrates
- Excellent abrasion resistance. No additional protective coating is required for roof subjected to foot traffic
- UV/ Weather Resistant
- Light in weight does not add extra weight over the roof
- Water based, hence eco-friendly
- Can be easily applied by brush & roller
- It is breathable
- Easy to recoat existing surfaces coated earlier with acrylic based elastomeric coatings

**WATERPROOFING****MICROFIBER  
REINFORCED  
ELASTOMERIC  
COATING  
CODE: D016****Application Method:****1 Surface Preparation**

- The surface must be prepared thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles. Bitumen based waterproofing treatments if existing, must be completely removed by any effective mechanical means.
- Damaged or hollow portions, sharp edges, etc. in old terraces, brick coba/screed must be cut and removed till the mother slab. The slab should be recoated with bonding slurry of FIXOCRETE and cement in 1:1 proportion. After drying, the brick bat coba should be reinstated by mixing FIXOCRETE in the base slurry and the mortar used for top coba. In other areas, where the substrate is sound, the surface cracks must be filled with FIXOCRETE polymer-modified mortar in case cracks are wider than 5 mm.
- Cracks less than 2 mm should be cleaned free of dust. Apply Durabuild Anti-Efflorescent Primer on the crack and let it dry. Then pour Durabuild Microfiber Reinforced Elastomeric Waterproof Coating into these cracks and wait for it to dry. Ensure that the roof slope of a minimum of 1 in 100 is already provided.

**2 Application**

- Dilute 2 parts of Durabuild Anti-Efflorescent Primer with 1 one part of water to be used as a prime sealing coat. This dilution will cover 7 to 8 sq.mt. Allow it to dry for 6 to 8 hrs.
- Apply the first coat of Durabuild Microfiber Reinforced Elastomeric Waterproof Coating without any dilution at the rate of 2.0 sqm per kg and allow it to dry before taking up the second and third coats at right angles, the rate of application being the same.
- In larger roofs, an open woven glass fibre mesh of 2.5 mm x 2.5 mm must be sandwiched between the first and second coat. While the 1st coat is still wet, place the fibre mesh on it. After the coat dries, start applying the 2nd coat of Durabuild Microfiber Reinforced Elastomeric Waterproof Coating. This improves the performance of the coating dramatically, to take care of all movements in cracks and cold joints in the substrate caused by variations of high and low temperatures. If required, an additional coat can be applied, particularly for larger areas.
- Drying time between coats will be 6 to 8 hrs.
- Allow the system to air cure for 7 days minimum. A total thickness of 1 to 1.2 mm must be achieved when DURAKOTE HD is dry.

**3 Maintenance & Recoating of DURAKOTE HD**

Over a period of time or some years, if elastomeric coating has developed cracks on exposure to weathering or extreme temperature variations, it is extremely easy to recoat over it again, with only one coat of application of Durabuild Microfiber Reinforced Elastomeric Waterproof Coating. Cracks if any, can be treated by placing a fibre mesh over a recoat, while it is still wet. After this dries, it would need an additional coat over the mesh to strengthen the area. In rest of the areas where there are no cracks or damage on the surface, one coat may be sufficient, after properly sanding the surface.



## WATERPROOFING

### MICROFIBER REINFORCED ELASTOMERIC COATING CODE: D016

#### Precautions and Limitations:

- All corners, gaps, joints, protrusions & outlets shall be coated with two extra coats.
- The product is designed only for foot traffic and not vehicular or movement of machinery or equipment.
- Do not apply elastomeric coating over expansion or moving joints
- Never dilute coating with water for ease of application
- Stir well before use.

#### Standard Compliances:

BS EN 12390, part 8:2000- Water Permeability; ASTM D 4541 – Adhesion bond strength, ASTM G 154- Accelerated Weathering

#### Technical Data:

PARAMETERS	SPECIFICATION	TEST RESULTS
<b>Solid Content %</b>		70
<b>Hardness (Shore A)</b>	ASTM D 2240: 2002	70
<b>Tensile Strength, N/mm²</b>	ASTM D 412 : 2002	2.5
<b>Elongation at Break, %</b>	ASTM D 412 : 2002	200
<b>UV Resistant – Accelerated</b>	ASTM G 154 : 2000	Excellent: No thermal degradation
<b>Weathering (1000 hours)</b>		No cracking, chalking and discoloration
<b>Adhesion Strength, N/mm²</b>	ASTM D 4541 : 2002	1.0
<b>Water Vapour Transmission</b>	ASTM E 96 : 2000	20 g/m² /day
<b>Algae &amp; Fungus Resistant</b>	(SS 345 : 1998)	No algae & fungus Growth
<b>Crack Bridging</b>	ASTM C 836: 1995	a) No cracks up to 2 mm width b) No cracks up to 1 mm (10 cycles)
<b>Rapid chloride permeability</b>	ASTM C 1202 – 97	Very low
<b>Water permeability (Depth of penetration at 5 bar pressure), mm</b>	BS EN 12390, part 8 :2000	Nil



## WATERPROOFING

### Coverage:

1.0 kg/ sqm in 3 coats for 1 mm film thickness depending on the substrate texture and porosity.

### Packaging:

5 kg & 25 kg

### Shelf Life:

12 months from the date of manufacturing when kept in cool, dry, unopened and undamaged original packing condition.

### 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.



Non-Inflammable



Non-Toxic



Eco-Friendly



Make in India

**Dr. GHANTI'S LAB®**

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#### OUR PRODUCT RANGE



WATERPROOFING



PROTECTIVE  
COATING



CONCRETE  
REPAIRS



TILE  
INSTALLATIONS



CONCRETE  
ADMIXTURES



SEALANTS



ADHESIVES



INDUSTRIAL  
FLOORING



GROUTS &  
ANCHORS



CEMENT  
ADDITIVE

**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.