

High build fiber Reinforcement Acrylic Elastomeric Waterproofing render for roofing

## Product Description

D- Seal A100 is a single component acrylic polymer modified, elastomeric fiber reinforcement high build & easy roller applied / brushable coating available in different colors for application in multiple layers, minimum 3 layers application is recommended for the best performance.

## Standards compliance

Tested to ASTM D4541, ASTM D412, ASTM G154, ASTM E96

## Uses

D - Seal A 100 is high build fiber reinforced seamless waterproofing render suitable for waterproofing of old & new roofs, it is a polymer base product applied in three or more coats.

The product can be applied directly on existing concrete, brickbat coba, and screed concrete even without removal provided the substrates are sound enough for application of the coating avoiding the risk of damage to the old roof associated while removing of the existing overlays. The product provides a seamless, tough durable water resistant coating which can withstand light pedestrian traffic and also has excellent weather resistance for exterior applications.

- High Build system provides higher dry film thickness
- The product can applied directly on existing sound concrete, brickbat coba, screed concrete even without removal
- No protection screed required eliminating the additional weight due to protection layer
- Excellent barrier to carbon dioxide, chloride and sulphate ions.
- Allows water vapor to escape from the structure.
- High resistance to the effect of long-term weathering,
- Durable in all climate conditions including UV attack.
- Excellent bond to concrete and masonry.
- Good crack accommodation capacity.
- Minimum surface preparation needed and low labour.

## Features and Benefits

## Application Methodology

### Step no 1 : Surface Preparation

- All the surfaces which are to receive D – Seal A100 must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with suitable Ducon Repair mortar System.

### Step no 2: Waterproofing Application

- Stir well prior to application.
- All joints / corners / penetration points, rainwater outlets, marble / tile strip joints and parapet wall and floor junction joint (corner rounding) over the length shall be treated prior to all application of D-Seal A100 by reinforcing minimum layer of 50-100 mm width, with 45gsm glass fiber mesh cut to size, embedded in between the two coats of D-Seal A100 to provide additional strength to the treatment.
- Allow the coating to dry for 4-6 hrs. before application of second.
- Apply a coat of D-Seal A100 (diluted with water at 33% by volume) as Self-Priming 7-8 Sq.mtr / kg.
- Allow coating to dry for 4 hours prior to applying first coat & second coat.
- Apply two coats of D-Seal A100 @ 2.0-2.2 Sq.mtr / kg / coat, with the same application coverage. Application direction of second coat should be perpendicular to that of the first coat without water dilution to deliver a DFT of 450-500 micron.
- Allow the system to air cure for 7 days minimum.
- For vertical surfaces: Apply two coats of D-Seal A100 with forced coverage of 3.3 -3.7 Sq.mt/kg/ Coat

## Statement of Responsibility (Disclaimer)

The technical information and application advise are based on present state of our best scientific and practical knowledge. As the information herein of a general nature, no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

High build fiber Reinforcement Acrylic Elastomeric Waterproofing render for roofing

### Step no3: Mixing

- The contents of D – Seal A100 shall be thoroughly stirred for at least 2 minutes using a slow speed (300-400 RPM) drill machine attached with a mixing paddle. Retempering with water should not be done. Keep on stirring during application.

### Step no 4: Application

- In order to obtain the protective properties of D - Seal A100 it is important that the correct rates of application are observed. Use a short stiff brush preferably 120-150mm width and apply the mixed material like paint.
- The application of D – Seal A100 should not be done if the temperature of the substrate is below 10°C. Apply D – Seal A100 in 3 coats.
- The second & third coat of D- Seal A100 shall be applied as soon as the first coat has reached touch dry state. If planning for protection screed allow the D-Seal A100 coating to dry before covering with screed, sprinkle coarse sand on wet surface of final coating for better adhesion of screed.

### Step no5: Cleaning

- D-Seal A100 should be removed from tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

Technical Data	
Solid Content	70±3%
Tensile strength (ASTM D412)	1.10mpa
Elongation (ASTM D412)	100%
Resistance to ageing due to UV radiation (ASTM D4587 E)	1000hours No Change
Rapid Chloride Penetration (ASTM C 1202-3))	Very Low
Pull of adhesion (ASTM D4541)	0.92Mpa
Resistance to Algee growth (ASTM D 5589-97)	Passes, Zero rating
Permeability (mm) (BSEM 12390 part 8)	5
Water Vapour transmission (ASTM E96)	6.0g/m <sup>2</sup> h

### Packaging

20 kg bucket

### Storage and Shelf Life

Shelf life is 6 months from the date of manufacturing in un- opened condition. Store in a cool & dry place.

### Limitations

Do not apply during rains; substrate must be in SSD condition for application of primer. The product is designed only for foot traffic and not vehicular movement or movement of machinery or equipment's.

### Statement of Responsibility (Disclaimer)

The technical information and application advise are based on present state of our best scientific and practical knowledge. As the information herein of a general nature, no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.