

An acrylic flexible waterproofing coating

## DESCRIPTION

**D-Seal A100** specially formulated for exterior surface of wall, residential and commercial building roofs. It is excellent resistance to water, weathering and resistance properties against fungi, algae and dampness caused by lashing rain help the exterior walls withstand diverse effects caused by weather. Presence of light fast chemical resistant pigments/fillers, systematic cross linking of flexible resin binder during drying, special preservatives and other special additives make it an excellent durable coating with retention of color brightness, crack coverage & dirt/stain resistance for a long time.

## RECOMMENDED USE

- As a waterproofing treatment for roof over new and old concrete, on basements and works against rising dampness.
- In a masonry work as a coating to prevent salt penetration over brick work.
- To provide foundation protection, decks, Balcony etc.
- To provide protection to concrete surfaces from carbonation and chloride attack.

For waterproofing and protection against brackish water.

## FEATURES & BENEFITS

- Film thickness – Provides higher dry film thickness of 1 to 1.25 mm in three coat application
- Crack bridging - Bridges cracks up to 2 mm width

- Application advantage - No need to remove existing sound brickbat coba, plaster, concrete surface
- Suitability - Can be used for flat as well as sloping roofs
- Strength - Higher tensile strength, tear resistance & bond strength with cementitious substrates
- Resilience – Forms highly elastic & resilient coating so helps to withstand the structural movements
- Durability – Resistant to UV & weather conditions
- Abrasion resistant – No additional protective coating is required for roof subjected to foot traffic
- Ease of application – Can be applied by brush & roller easily
- Weight addition – Light in weight does not add extra weight over the roof
- Toxicity – It is non-toxic in nature
- Breathability – It is breathable
- Recoat - Easy to recoat existing surfaces coated earlier with D-Seal A100

## METHOD OF APPLICATION

### 1. Surface Preparation

- Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles.

### 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.

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- In existing old terraces with brickbat coba or screeds, the substrate must be checked for its soundness.
- Damaged or hollow portions, sharp edges, etc. must be cut and removed till the mother slab.
- Cracks less than 2 mm, should be cleaned free of dust with a vacuum cleaner.
- Ensure that the roof slope of a minimum of 1 in 100, is already provided.
- Bitumen based waterproofing treatments if existing, must be completely removed by mechanical scarification or by any other effective mechanical means.

## 2. Application

- Mix D-Seal A100 thoroughly and apply. This mixture will cover 7 to 8 sq.mt. Allow it to dry for 6 to 8 hrs.
- In larger roofs, an open woven glass fiber mesh of 2.5 mm x 2.5 mm must be sandwiched between the two coats.
- The sequence of colors of D-Seal A100 can be decided depending on the desired top coat color.
- 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 D-Seal A100 is dry.

## 3. Maintenance & Recoating of D-SEAL A100

Over a period of time or some years, if D-Seal A100 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 D-Seal A100. Cracks if any, can be treated by placing a fiber mesh over a recoat, while it is still wet. After this dry, it would need an additional coat over the mesh to strengthen the area. In rest of the area where there are no cracks or damage on the surface, you can just go in for only one coat of D-Seal A100, after properly sanding the surface.

## 4. Post Application Checklist

- Conduct ponding test by filling water up to 50 mm height for 48 hours to ensure leak-free terrace.

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## Precautions & Limitations

- All corners, gaps, joints, protrusions & outlets shall be coated with two extra coats.
- 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 or movement of machinery or equipment.
- Do not apply D-Seal A100 over expansion or moving joints.
- To achieve the full proof waterproofing, parapet walls should be covered with D-Seal 200.
- Never dilute D-Seal A100 with water for ease of application

**Coverage:** 2 m<sup>2</sup> per kg per coat.

**Packing:** 5, 10 & 20 Kg.

**Shelf Life & Storage:** Shelf life is 24 months from the date of manufacturing in unopened condition. Store in a cool & dry place.

## Health & Safety Precautions

**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.

## Technical Information:

Solid Content, %	69
Tensile strength, n/mm <sup>2</sup>	2.6
Elongation at Break, %	200
UV Resistant - accelerated	Excellent: No thermal degradation,
Weathering (A1000 hours)	no cracking, chalking and discoloration
Adhesion strength, N/mm <sup>2</sup>	0.9
Water vapour transmission	19 g/m <sup>2</sup> /day
Algae & Fungus Resistant	No algae & fungus growth
Water permeability (penetration at 5 bars pressure)	6

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