



SDE AQUA PROOF DATA SHEET

SDE AQUAPROOF is a heavy duty terrace waterproof coating system, based on specially developed highly. Elastic & resilient acrylic polymers, It is used as a liquid applied waterproofing membrane for all types of building terraces. SDE AQUAPROOF is a three-layer system ensuring proper build-up of the thickness, making it a reliable waterproofing system. The coating performance can be enhanced for large roofs, by providing a fiber mesh that is embedded or sandwiched between the coats.

PROPERTIES AND AREAS OF USE:

- 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 plaster, concrete surface.
- Suitability - Can be used for flat as well as sloping roofs.
- Strength - Higher tensile strength, tear resistance & bond strength with cementations 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.
- Easy to recoat existing surfaces coated earlier with SDE AQUAPROOF.

SURFACE PREPARATION:

- Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles.
- 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 is complete
- Cracks less than 2 mm, should be cleaned free of dust with a vacuum cleaner.
- Apply SDE Primeseal in the crack and let it dry. Then pour SDE AQUAPROOF into these cracks and wait for it to dry.
- Bitumen based waterproofing treatments if existing, must be completely removed by mechanical scarification or by any other effective mechanical means

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APPLICATION:

- Dilute 2 parts of SDE Primeseal with 1 one part of water. This dilution will cover 7 to 8 sq.mt.
Allow it to dry for 6 to 8 hrs.
- Apply the first coat of SDE AQUAPROOF without any dilution at the rate of 2 m² per liter and allow it to dry before taking up the second and third coats, the rate of application being the same.
- In larger roofs, an open woven glass fiber 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 fiber mesh on it. After the first coat dries, start applying the 2nd coat of SDE AQUAPROOF in perpendicular direction to the 1st coat. 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. This reinforcement with fiber mesh shall be extended up to the drip mould over the angle fillets.
- 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 SDE AQUAPROOF is dry.
- 7 days after application of SDE AQUAPROOF, it should be checked for its adhesion to the substrate. For this, mark a square of 5 cm x 5 cm, for every 200 sq. m of the area.
- Cut the square with a knife diagonally across the square. Rip the coating and check the coating's thickness with venire calipers, to see if the dry film has an average thickness of 1 mm. This should be done in every 200 m². over the entire roof. Once these tests are done, reapply a new coat over these portions, in accordance with the regular procedure.

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 SDE AQUAPROOF over expansion or moving joints.

Technical Information

Solid Content	65% min
Hardness (Shore A) ASTM D 2240:2202	80.00
Tensile Strength, N/mm² ASTM D 412:2002	1.20
Elongation at Break, % ASTM D 412:2002	80 min
UV Resistant – Accelerated ASTM G 154:2000	Excellent: No Thermal degradation
Weathering (1000 hours)	No cracking, chalking and discoloration
Adhesion Strength, N/mm² ASTM D 4541:2002	1.00
Water Vapour Transmission ASTM E 96:2000	19g/m ² /day
Algae & Fungus Resistant (SS345:1998)	No Algae & Fungus Growth
Crack Bridging ASTM C 836:1995	a) No Cracks up to 2mm width b) No Cracks up to 1mm (10 Cycles)
Rapid Chloride Permeability ASTM C 1202-97	Very Low

Storage:

Keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling:

Handle with care. Stir well before use.

Packing Size:

20 KG

Summary Safety Information

- Avoid inhalation of spray mist and skin contact by the use of masks, gloves and other personal protection. Eyes should be cautiously washed with water or proprietary wash, and medical attention obtained. Skin should be thoroughly washed using a cleanser and soap and water.
- Product is flammable
- No sparks or flames
- No smoking

The information given in this data sheet represents test results & practical experience obtained under controlled conditions, and are correct to the best of our knowledge. However, as products are often used under different conditions, we can only guarantee the quality of our product, and reserve the right to change data without further notice.