

HOMESURE wSHIELD 2K AQUA SEAL 100

Two Component Cementitious Acrylic Waterproof Coating

HOMESURE wSHIELD AQUA SEAL 100 is an advanced, two-component, flexible cementitious waterproofing and protective coating, meticulously formulated with superior-quality Portland cement, carefully graded aggregates, high-performance additives, reinforcing fibres, and a premium acrylic emulsion polymer as a binder. This state-of-the-art coating is specifically designed to impart exceptional waterproofing and long-term protection to concrete structures and allied surfaces, ensuring unparalleled durability and structural integrity.

FEATURES & BENEFITS

- ✓ Seamless, joint-free membrane offering superior water resistance.
- ✓ Exceptional flexibility and UV resistance, ensuring enduring performance in exposed environments.
- ✓ Outstanding adhesion to both porous and non-porous concrete substrates.
- ✓ Non-toxic formulation, safe for potable water contact, making it ideal for water tanks and reservoirs.
- ✓ Exemplary resistance to water ingress, ensuring enhanced protection against thermal shocks and weather-induced stresses.

INDICATIVE TECHNICAL DETAILS

Nature	: Part 1: Grey powder Part 2: White liquid
Mix ratio (Powder : Liquid)	: 2 : 1
Water absorption	: < 4%
Tensile strength	: $0.70 \pm 0.20 \text{ N/mm}^2$
Bonding strength with concrete (7 days)	: $1.0 \pm 0.25 \text{ N/mm}^2$
Elongation at break	: 40 – 60%
Crack bridging	: 1 – 2 mm

AREAS OF APPLICATION

- Basements, rafts, retaining walls, and roof slabs, including podiums, parking decks, green roofs, and planter boxes.
- Under-tile waterproofing in bathrooms, kitchens, laundry areas, shower floors, and wet areas.
- Waterproofing for swimming pools, water features, and water retaining structures.

COVERAGE

- Coverage is dependent on the surface texture, porosity, and site conditions.
- Typical coverage is approximately 6–7 square feet per two coats, achieving a total dry film thickness (DFT) of 1.5 mm.

GUIDANCE FOR APPLICATION

SURFACE PREPARATION

- ✓ Ensure all application surfaces are structurally sound, clean, and devoid of dust, dirt, grease, oil, loose particles, and other contaminants.
- ✓ Thoroughly wire brush the surface to remove all weak materials, followed by dust removal using an air compressor or high-pressure water jet.
- ✓ Greasy or oily surfaces should be cleaned with suitable degreasing agents.
- ✓ Any surface defects, cracks, or voids must be rectified using polymer-modified repair mortar to achieve a sound substrate.

MIXING

- ✓ Shake the liquid component thoroughly to ensure a homogeneous, milky consistency.
- ✓ Pour the entire liquid component into a clean mixing container.
- ✓ Gradually introduce the powder component into the liquid while continuously mixing with a slow-speed mechanical stirrer (250–300 rpm) for 3 to 5 minutes, ensuring a uniform, lump-free, free-flowing slurry.

PACKAGING

3 kg, 15 kg, and 30 kg kits.

APPLICATION

- ✓ Apply the mixed WSHIELD AQUA SEAL 100 slurry in two coats, with each coat applied perpendicular to the previous one, to ensure complete coverage.
- ✓ Do not dilute the product with water or any other material.
- ✓ Each coat should be applied at a uniform thickness of approximately 0.75 mm.
- ✓ Allow a minimum drying time of 24 hours between coats and prior to subsequent works.
- ✓ For applications such as swimming pools and water tanks, allow a curing period of at least 7 days before water contact, filling, or ponding tests.

CLEANING

Clean all tools immediately after use with clean water. Do not allow the material to harden. Hardened materials should be removed mechanically

CURING:

- ✓ After application, initial air drying shall be done for 3 - 6 hours. During this period, no water should be used for curing. If there is a chance of rain or hot (temperature above 40°C), windy atmospheric conditions within this period, protect the coating by covering with waterproof plastic sheet
- ✓ When surface becomes hard enough, fog spray with clean water keeping waterproofed surface damp for 2 - 3 days. Hotter the weather, more critical the curing. Light spraying of water is recommended more frequently and for several days.
- ✓ After the moist curing the coating shall be allowed to air dry for 3 days before submersion in water.

PRECAUTIONS

- ❖ Do not part mix. Mix the entire quantity of both components in one go.
- ❖ Do not add water to dilute material.
- ❖ Always add powder to liquid to avoid lump formation.
- ❖ Do not cure by flooding with water.
- ❖ Cure the membrane with moist hessian cloths
- ❖ Do not conduct any ponding test before it is completely cured for 7 days
- ❖ Always protect the membrane with screed in areas exposed to foot and other traffic.
- ❖ Reinforcement rods and other sharp materials should not be dragged over the WShield Aqua Seal 100 membranes, as this can puncture the same.
- ❖ Application recommended to done at temperature 5 - 35°C.

HEALTH & SAFETY INFORMATION

- ★ Refer MSDS for information and advice on the safe handling, storage and disposal of chemical products.
- ★ Use rubber hand gloves & safety goggles, while using product
- ★ Avoid contact with skin/eyes and avoid swallowing. In case of contact with skin, wash with plenty of water.
- ★ Ensure adequate ventilation and avoid inhalation of vapour
- ★ Spillages of WShield Aqua Seal 100 can be removed with water. Do not use solvent to clean the contacted area.
- ★ Keep out of reach of children.

SHELF LIFE & STORAGE INSTRUCTIONS

- ⊕ 12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C
- ⊕ Store in dry and well-ventilated place away from heat source or direct sunlight.