

## TECHNICAL DATA SHEET

### 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.

#### 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.

#### PACKAGING

3 kg, 15 kg, and 30 kg kits.

#### 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.

#### 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.

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### 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.