

HOMESURE WSHIELD TERRA COAT

Fiber-Reinforced Waterproof Liquid Membrane

Homesure WShield Terra Coat is a high-performance, fibre-reinforced synthetic resin-based waterproof coating designed for exceptional durability and flexibility. Its thixotropic consistency makes it equally effective for both vertical and horizontal applications. Being a single-component, ready-to-use product, it offers ease of application and excellent environmental compatibility. Its bright white colour provides outstanding UV resistance and solar reflectivity, contributing to surface cooling and increased energy efficiency.

KEY FEATURES

- ✓ Single-component, cold-applied, and highly elastic rubber-like membrane.
- ✓ Superior wetting and adhesion properties on a variety of substrates.
- ✓ Enhanced with advanced additives to provide long-lasting durability.
- ✓ Seamlessly adapts to irregular and uneven surfaces.
- ✓ Outstanding UV resistance, ensuring long-term performance under sun exposure.

BENEFITS

- ✚ Forms a seamless, impermeable waterproofing barrier.
- ✚ Exceptional resistance to peeling, chipping, and weather-induced degradation.
- ✚ Highly resistant to oxidation, UV radiation, and ozone exposure.
- ✚ Withstands structural expansion, contraction, and thermal movement while maintaining crack-bridging ability.
- ✚ Requires no mixing or heating, saving both labour and time.
- ✚ Contributes to thermal comfort by reflecting sunlight and reducing heat absorption.

PACKAGING

1 kg, 5 kg, 10 kg, 20 kg. pail, & 50 kg, 200 kg. barrels.

APPLICATION AREAS

- ❖ Waterproofing for roofs made of asphalt, asbestos, cement, concrete, and terrazzo tiles.
- ❖ Suitable for both horizontal and inclined structures.
- ❖ Ideal for roof slabs, terraces, balconies, sunshades, parapet walls, and more.
- ❖ Can be used as an underlayer for brickbat coba and Indian Patented Stone (IPS) flooring systems.
- ❖ Excellent for waterproofing both newly constructed and existing structures.
- ❖ Applicable to flat roof systems (both traditional and inverted).

SUITABLE SUBSTRATES

- ✓ Applicable to concrete, wood, and metal surfaces (for metal, a specialized primer is recommended).
- ✓ Suitable for roofs with any slope, from flat to steep inclines.
- ✓ Concrete and cementitious substrates should be properly cured (minimum 28 days) and have a smooth, trowelled finish.
- ✓ Metal and wooden substrates should be firmly fixed and thoroughly cleaned prior to application.

IMPORTANT PRECAUTIONS

- ☒ Asphalt roofs must be at least one year old and load bearing.
- ☒ Avoid application when rain is imminent.
- ☒ Application at temperatures below 5°C may lead to incomplete curing, reduced elasticity, and possible surface cracking.
- ☒ Low temperatures and high humidity will slow the curing process; conversely, hot and dry weather will accelerate it.
- ☒ The cured membrane is resistant to light pedestrian traffic but may be damaged by heavy traffic, high heels, or sharp objects. In such cases, protect the membrane with tiles, slabs, or appropriate coverings.

TECHNICAL SPECIFICATIONS		
Property	Test Method	Value
Appearance	Visual	Viscous liquid
Solid content	ASTM D1644-03	55 ± 2%
Colour	Visual	White
Viscosity at 25°C	Spindle No: 4/7; RPM: 10/20	50000 – 70000 cP (Thixotropic)
Specific gravity	ASTM D1475-03	1.30 ± 0.10
Curing time at 20°C, 50%RH	ASTM C4125	Approx. 48 hours
Drying time at 25°C	ASTM D1640-03	Approx. 2 hours
Hardness (Shore A)	ASTM D2240-05	55 ± 5
Temperature resistance	-	-30°C to +100°C
Elongation at break	ASTM D2370-98	> 200%
Tensile strength	ASTM D412-98a	0.8 ± 0.3 N/mm ²
Water permeability	-	Near zero
UV resistance	ASTM D822	10000 hours – No deterioration or colour fade
Flash point	-	Non flammable
Chemical resistance	-	Good
Electrical insulation	-	Good
Adhesion strength (Peel-off)	ASTM D903-98	68.00 N/mm ²
Pull-off strength	BS 1881: Part 207:1992	2.70 N/mm ²
Water vapor transmission	ASTM E96-95	0.97 g/h/m ²

APPLICATION INSTRUCTIONS

Surface Preparation

- Ensure the surface is clean, dry, and free of dust, loose material, rust, oil, grease, or any contaminants that could impair adhesion.
- Concrete substrates should be at least 28 days old, well-compacted, and trowel finished.
- For wood or metal substrates, ensure proper fixing and thorough cleaning.

Priming

- Prime old asphalt, concrete, and terrazzo surfaces using Homesure WShield Terra Coat diluted 1:2 with treated water.
- Allow the primer to fully dry before applying the topcoats.

Application

- Apply two coats using a brush, roller, or spray equipment.
- First coat may be diluted up to 20% with clean water.
- Second coat dilution should not exceed 10%.

- Each coat should be applied in perpendicular directions for optimal coverage and uniformity.
- Ensure complete drying between coats.

Special Considerations for Flat Roofs (Zero-Pitch)

- Flat roofs prone to water pooling require ideal weather conditions during application and curing.
- Post-cure puddling cannot be corrected, and reapplication may be necessary.
- Avoid using hard-bristle brooms for cleaning the finished surface.

COVERAGE

- Coverage varies based on substrate texture and porosity.
- Typical coverage on smooth surfaces:
12 – 15 square feet per kg for 2 coat system with a dry film thickness (DFT) of 300 microns.

METAL ROOF APPLICATION

- **Iron or Galvanized Metal:** Remove loose paint and rust with a wire brush, then apply a compatible metal primer.
- **Zinc or Aluminium:** Remove loose paint and corrosion, then apply a suitable solvent-based primer.
- Clean off moss or mildew with a wire brush before application.

CONCRETE ROOF APPLICATION

- After thorough cleaning, prime the surface with Homesure WShield Terra Coat diluted 1:2 with treated water.
- Allow primer to fully dry before applying two coats of Homesure WShield Terra Coat.

MEMBRANE APPLICATION

- Follow standard preparation and priming processes.
- Apply two coats of Homesure WShield Terra Coat, ensuring uniform coverage.
- Allow a minimum of 48 hours for curing under normal conditions.
- In low temperatures, extend the curing period as necessary before installing thermal insulation or protective layers.

THERMAL INSULATION & PROTECTION

Thermal Insulation

- Install extruded polystyrene panels (100% closed cellular structure) over the fully cured membrane.
- Panel thickness should be selected based on required thermal performance.

Mechanical Protection

- **Non-Trafficable Roofs:** Cover insulation with a fine mesh nylon sheet, then apply washed gravel (15-30 mm) to a minimum thickness of 5 cm.
- **Trafficable Roofs:** Use pre-cast concrete slabs or apply an in-situ concrete screed (4-5 cm thick) over Kraft paper for added protection.

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.

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 Homesure wShield Terra Coat can be removed with water. Do not use solvent to clean the contacted area.
- ✓ Keep out of reach of children