

HOMESURE wSHIELD TERRA CHAMP

Premium Elastomeric Waterproof Liquid Membrane

HOMESURE wSHIELD TERRA CHAMP is a single-component, high-performance, synthetic resin-based waterproofing liquid membrane. Its thixotropic consistency and exceptional flexibility make it ideal for both vertical and horizontal surfaces. Its brilliant white colour offers excellent UV resistance and solar reflectivity, contributing to a cooling effect and improved energy efficiency, while serving as an economical, eco-friendly protective coating.

KEY FEATURES

- ✓ Single-component, cold-applied, elastomeric liquid membrane.
- ✓ Exceptional wetting and adhesion properties.
- ✓ Enhanced durability due to specialized additives.
- ✓ Conforms effortlessly to irregular substrates and contours

BENEFITS

- ✚ Ready-to-use formulation requiring no mixing or heating, minimizing labour and application time.
- ✚ Forms a seamless, impermeable waterproof blanket.
- ✚ Ensures superior adhesion, resisting peeling, chipping, and delamination for long-lasting protection.
- ✚ Outstanding resistance to oxidation, UV degradation, and ozone exposure.
- ✚ Accommodates substrate expansion, contraction, and movement, effectively bridging cracks.

RECOMMENDED APPLICATION AREAS

- ❖ Waterproofing for roofs made of asbestos, asphalt, cement, concrete, and terrazzo tiles.
- ❖ Applicable to both horizontal and inclined structures.
- ❖ Suitable for terraces, balconies, sunshades, parapet walls, and roof slabs.
- ❖ Ideal as a protective and waterproofing underlay for brickbat coba and Indian Patented Stone (IPS) flooring.
- ❖ Suitable for both new and existing surfaces.
- ❖ Excellent for flat roofing systems, including both traditional and inverted roofs.

SUITABLE SUBSTRATES

- Concrete, wood, and metal surfaces (a suitable primer is recommended for metal surfaces).
- Applicable to roofs with any slope, from flat to steep.
- Concrete and cementitious substrates should be compacted, at least 28 days old, and trowel finished.
- Metal and wood substrates should be properly secured and thoroughly cleaned before application.

APPLICATION PROCEDURE

Surface Preparation

- Ensure all substrates are structurally sound, clean, dry, and free of dust, dirt, oil, grease, loose materials, or rust.
- Concrete and cementitious substrates should be at least 28 days old.

Priming

- On asphalt, terrazzo, or concrete surfaces, apply a primer coat by diluting HOMESURE WShield Terra Champ 1:2 with treated water.
- Allow the primer to air dry completely.

Application

- Apply two coats using a brush, roller, or spray equipment.
- For the first coat, up to 20% dilution with water is permissible.
- For the second coat, dilution should not exceed 10%.
- Apply coats in perpendicular directions for optimal coverage.
- Ensure each coat is fully dry before applying the next.

Special Considerations for Zero-Pitch Roofs

- Ensure dry weather conditions before application to prevent ponding and improper curing.

Metal Roof Preparation

- For iron or galvanized metal, remove loose paint and rust with a wire brush, followed by application of a suitable metal primer.
- For zinc or aluminium, remove corrosion and apply a compatible solvent primer before application.

TECHNICAL SPECIFICATIONS		
Property	Test Method	Value
Appearance	Visual	Viscous liquid
Solid content	ASTM D1644-03	62 ± 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	> 300%
Tensile strength	ASTM D412-98a	0.8 ± 0.3 N/mm ²
Water permeability	-	Near zero
Solar reflective index (SRI)	-	116
UV resistance	ASTM D822	10000 hours – No deterioration or colour fade
Flash point	-	Non flammable
Chemical resistance	-	Excellent
Electrical insulation	-	Good
Adhesion strength (Peel-off)	ASTM D903-98	66.00 N/mm ²
Pull-off strength	BS 1881: Part 207:1992	2.704 N/mm ²
Water vapor transmission	ASTM E96-95	0.97 g/h/m ²

COVERAGE

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

POST-APPLICATION

- Allow 48 hours curing under normal conditions.
- For lower temperatures, extend curing times accordingly.
- Ensure full curing before installing thermal insulation, protective layers, or tiles.

IMPORTANT PRECAUTIONS

- ☒ Asphalt roofs must be at least one year old and load bearing.
- ☒ Avoid application when rain is expected.
- ☒ Application below 5°C can result in incomplete curing, reduced flexibility, and potential cracking.
- ☒ High humidity and low temperatures will slow the curing process, while hot, dry weather will accelerate it.
- ☒ Not suitable for heavy traffic areas unless protected with tiles, slabs, or other coverings.

THERMAL INSULATION & PROTECTION

- For thermal insulation, use fully bonded extruded polystyrene panels.
- For non-trafficable roofs, cover insulation with washed gravel (minimum 5 cm).
- For trafficable roofs, use concrete slabs with proper drainage provisions or apply a protective concrete screed over insulation.

PACKAGING

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

SHELF LIFE & STORAGE INSTRUCTIONS

- 18 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 Terra Champ can be removed with water. Do not use solvent to clean the contacted area.
- Keep out of reach of children