

HOMESURE wSHIELD BITU COAT

Heavy-Duty Rubberized Elastomeric Waterproof Liquid Membrane

Homesure wShield Bitu Coat is a high-performance, cold-applied, rubberized elastomeric waterproofing membrane scientifically formulated using advanced synthetic resins, select graded minerals, specialty fillers, and performance-enhancing additives. The product cures to form a seamless, highly elastic, and durable waterproof membrane, which provides exceptional tensile strength, elongation properties, and long-term weather resistance.

This flexible, impermeable membrane is designed for long-term waterproofing and protection in both new construction and refurbishment projects.

FEATURES & BENEFITS

- ✓ Single-component, ready-to-use system with no pre-mixing required
- ✓ Cold-applied, eliminating the need for heating or specialized equipment
- ✓ Highly elastic with elongation exceeding 600%, capable of accommodating structural and thermal movements
- ✓ Superior adhesion to concrete, metal, wood, and polyurethane foam substrates
- ✓ Excellent crack bridging capability and durability under dynamic stress
- ✓ UV-resistant and highly resistant to oxidation and atmospheric pollutants
- ✓ Anti-fungal, anti-root, and corrosion-resistant properties

RECOMMENDED APPLICATION AREAS

- ❖ Waterproofing of concrete roofs, polyurethane foam slabs, and polyester-built roofs
- ❖ Rejuvenation and protection of aged roofing systems
- ❖ Waterproofing of masonry and concrete walls, bridges, basements, podium slabs, and planter boxes
- ❖ Effective waterproofing for bathrooms, balconies, decks, and bitumes
- ❖ Surface protection for metal substrates
- ❖ Used as a sandwich waterproofing membrane in new construction
- ❖ Protection of structures exposed to harsh weather conditions, root penetration, and cyclic movement

APPLICATION PROCEDURE

SURFACE PREPARATION

- All substrates must be structurally sound, clean, and free from dust, loose particles, grease, oil, and laitance.
- Concrete substrates must be cured for a minimum of 28 days.
- Any cracks, voids, or surface defects must be repaired using polymer-modified repair mortar prior to membrane application.
- Metal surfaces should be wire-brushed to remove rust and mill scale and then primed with an appropriate metal primer.

PRIMING

- A primer coat using Homesure WShield Bitu Coat diluted 1:2 with clean water should be applied to prepared concrete and masonry surfaces.
- Allow primer to dry completely before the application of the main waterproofing membrane.

APPLICATION METHOD

- Homesure WShield Bitu Coat can be applied using brushes, squeegees, brooms, or airless spray equipment (check viscosity for spray suitability).
- For reinforced systems, embed glass fiber fabric into the first coat while still wet to enhance tensile strength and crack bridging.
- For improved workability, the first coat may be diluted with up to 20% water, and the second coat with up to 10% water.
- Check the product viscosity to ensure smooth spraying if using spray equipment.
- Apply the first coat directly onto the primed surface.
- Allow 8-10 hours curing between coats under normal conditions.

CLEANING

- Tools should be cleaned immediately after use with clean water.
- For dried material, cleaning with an appropriate thinner may be required.

TECHNICAL SPECIFICATIONS		
Property	Test Method	Value
Appearance	Visual	Smooth, thick paste
Solid content	ASTM D1644-03	60 ± 2%
Colour	Visual	Black
Viscosity at 25°C	Spindle No: 7; RPM: 10	50000 – 70000 cP
Specific gravity	ASTM D1475-03	1.10 ± 0.10
Tack free time at 35°C	Internal test	Max. 12 hours
Drying time at 25°C	ASTM D1640-03	30 – 40 minutes
Tensile strength	ASTM D412-98	Up to 0.5 N/mm ²
Tensile set recovery	Internal test	85%
Elongation at break	ASTM D2270-98	> 900%
Tear resistance	Internal test	28 ± 10 kN/m
Service temperature	120°C / 24 hours	No shrinkage / brittleness
Chemical resistance	10% salt solution	No weight change
Chemical resistance	5% caustic soda	No weight change
Chemical resistance	5% sulphuric acid	No weight change
Water vapor transmission	ASTM E96-95	0.46 g/h/m ²

COVERAGE

Approximately 15 – 25 square feet for a 2-coat system, achieving a Dry Film Thickness (DFT) of 300 – 400 microns

Note: Actual coverage may vary based on substrate texture and application technique.

PACKING

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

CURING & PROTECTION

- Allow a minimum curing period of 48 hours under favourable conditions before subjecting to water immersion or overlaying with protective finishes.
- Protect the membrane from mechanical damage, high foot traffic, and heavy objects until fully cured.

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 30°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 WShield Bitu Coat can be removed with water. Do not use solvent to clean the contacted area.
- Keep out of reach of children