

HOMESURE wSHIELD HEAT PROTEK

Thermal Insulation Coating

HOMESURE wSHIELD HEAT PROTEK is a high-performance, single-component heat-reducing elastomeric acrylic coating composed of advanced acrylic resins, ceramic hollow microspheres, pigments, reinforced fillers, and specialized additives. Designed to function as a waterproofing and heat-reflective coating for roofs and exterior walls, it significantly reduces surface temperature, resulting in substantial energy savings and enhanced durability.

KEY FEATURES & BENEFITS

- ✓ Excellent UV resistance and long-lasting durability.
- ✓ Algae and fungus resistant.
- ✓ Reduces substrate temperature by up to 10°C in peak summer.
- ✓ Provides waterproofing and thermal stress protection, minimizing crack development.
- ✓ Highly resistant to oxidation, UV, and ozone.
- ✓ Withstands expansion/contraction and deck movements, preventing cracks.
- ✓ Provides insulation and cooling effect, reducing power consumption.
- ✓ Eliminates costly alternatives to traditional roofing systems.

RECOMMENDED APPLICATION AREAS

- ❖ Roofs & terraces, walkways, stairways, and pool areas.
- ❖ Asbestos roofs, aluminium sheet roofs, wooden roofs.
- ❖ Commercial buildings, sheds, warehouses, and modular homes.
- ❖ Weather-resistant membrane for industrial structures.
- ❖ Air-conditioned buildings and refrigerated storage facilities.
- ❖ Green buildings and eco-friendly applications.

COVERAGE

- ✚ Approx. 12- 15 sq. ft. per kg for 2 coat system.
- ✚ A two-coat application achieves a dry film thickness (DFT) of approximately 200-300 microns.
- ✚ For enhanced performance, an additional coat can be applied to achieve a minimum thickness of 500-700 microns.

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 the surface is clean, dry, and free from dirt, dust, oil, or contaminants.
- Treat surfaces with bio-wash to eliminate fungal growth where necessary.

Priming:

- Prime the prepared surface using a diluted wSHIELD HEAT PROTEK solution mixed in a 1:2 ratio with water.
- Allow the primer to dry completely before applying the topcoat.

Coating Application:

- Apply the first coat using a brush, roller, squeegee, or airless spray equipment.
- Allow each coat to dry completely (approximately 8-10 hours) before applying the next.
- Dilute wSHIELD HEAT PROTEK with 10-15% water for both the first and second coats.
- Ensure complete curing (48-72 hours) before exposing the surface to water.
- For best results, apply when the ambient temperature is between 13°C and 40°C.

PRECAUTIONS

- ☒ Avoid application during rain or when rain is expected.
- ☒ Ensure ambient temperature is above 13°C and below 40°C during application.
- ☒ Store containers in a cool, dry place away from direct sunlight.

| TECHNICAL SPECIFICATIONS | | |
|------------------------------|-----------------------------|-------------------------------|
| Property | Test Method | Value |
| Appearance | Visual | Thixotropic paste |
| Colour | Visual | White |
| Viscosity at 25°C | Spindle No: 4/7; RPM: 10/20 | 30000 – 50000 cP |
| Specific gravity | ASTM D1475-03 | 1.10 ± 0.10 |
| Solid content | ASTM D1644-03 | 62 ± 2% |
| Drying time at 25°C | ASTM D1640-03 | Approx. 2 hours |
| Curing time at 20°C, 50%RH | ASTM C4125 | Approx. 48 hours |
| Hardness (Shore A) | ASTM D2240-05 | 55 ± 5 |
| Temperature resistance | - | -30°C to +100°C |
| Elongation at break | ASTM D2370-98 | > 350% |
| Tensile strength | ASTM D412-98a | 1.00 ± 0.25 N/mm ² |
| Water permeability | - | Almost zero |
| Solar reflective index (SRI) | - | 120 |
| Chemical resistance | - | Excellent |
| Insulation properties | - | Excellent |

PACKAGING

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

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 Heat Protek can be removed with water. Do not use solvent to clean the contacted area.
- ✓ Keep out of reach of children