

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