

Technical Data Sheet

SHOOLIN HEAT GUARD

(Heat Insulating Elastomeric Exterior Coating)

SHOOLIN®

DESCRIPTION

SHOOLIN HEAT GUARD is a single component heat reducing elastomeric acrylic coating composed of acrylic resin, ceramic hollow micro sphere, pigments, reinforced fillers and additives. It is used as a waterproofing and heat reflective coating on roofs and exterior walls resulting in substantial reduction in power consumption, due to its good SRI value.

FEATURES

- Excellent UV and IR resistance-Enhance environmental protection.
- Algae and fungus resistance-long lasting film properties
- Substrate temperature reduction up to 10°C in the peak summer
- Protective and waterproofing-keeps the concrete slabs surface temperature lower hence reduction in thermal stresses and subsequent development cracks.

BENEFITS

- Ensures durable bond & resists peeling, chipping, hence lasts longer.
- Highly Resistance to oxidation, UV & ozone.
- Provide insulation or cooling effect.
- Eliminates costly forms of other roofing system.
- Withstands expansion/contraction & deck movements, Resists Crack.

TECHNICAL DATA

Base Appearance	Single component, special synthetic resin based
Solid Content	65± 2%(ASTM – D 1644-03)
Color	White.
Viscosity (Spindle No: 4/7; RPM: 10/20@25° C	20000 to 40000 CPS (thixotropic)
Specific Gravity	1.10 ± 0.10 (ASTM – D 1475-03)
Curing Time	Approx.48 hours (at 20°C, 50% RH) (ASTM C 4125)*
Drying Time @ 25° C.	Approx. 2 hours (ASTM D 1640-03)
Hardness Shore A	55 ± 5 (ASTM – D 2240-05)
Resistance to Temperature	Approx. -30 °C to +100 °C
Elongation Break	> 350 % (ASTM – D 2370-98)
Tensile Strength N / mm ²	3.50 (ASTM – D 412-98a)
Water Permeability	almost zero
Flash Point	Non-flammable
Chemical Resistance	Good
Insulation Properties	Good

APPLICATION AREA

- Roof & Terrace, Basements, Walking Desk and balconies, Stair ways & pool area, Asbestos roofs.
- Aluminum Sheet roofs, wooden roofs, Commercial buildings, Shades & warehouses, Mobile modular homes.
- Weather resistant membrane, Corrosion under insulation(CUI), Air conditioned building, Refrigerated cold storage facilities, Green buildings

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METHOD OF APPLICATION

SURFACE PREPARATION: surface should be clean free of dirt, gravel, dust and oil, concrete and cementitious substrate are to be well compacted and at least 28 days old, with troweled finish. Wood panels or metal sheeting should be solidly fixed & cleaned. Bio wash for killing fungus where necessary.

Method of Use: Prime the prepare surface with SHOOLIN HEAT GUARD water diluted in the ratio of 1:2 post drying of primer, Apply 1st & succeeding coats. Apply by brushes, squeegees, roller or airless spray equipment, Allow full curing of each coat (Approx. 8-10hrs) Before next coat is water dilutable up to 10-15% for 1st coat., 10-15% for 2nd coat. Ensure complete curing (approx.48-72hrs) before exposure to water. For best results, apply when surface and ambient temperature are above 13°C and below 40°C.

COVERAGE

Approximate coverage is around 25-30 sq. ft per kg/coat. 2 Coats of application should generally return DFT of approx. 200-300 microns. For best result apply additional coat to get minimum of 800-1000 microns.

HEALTH & SAFETY

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.

INGESTION: causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

SKIN CONTACT: Flush with water or soap and water till all traces have been removed. Seek medical attention if required.

STORAGE & SHELF LIFE

Shelf life is 18 months in unopened container. Store away from sunlight and preferably below 30°C. Storage should be frost protected.

PACKING

SHOOLIN HEAT GUARD is available in 1 kg, 5 kg, 10 kg, 20 kg. pail, & 50 kg 200 kg. Drum.