HEAT GUARD

100% PURE ACRYLIC HEAT REFLECTIVE WATERPROOF COATING.

Description

HEAT GUARD is a single component, 100% pure acrylic based, highly engineered, elastomeric, insulating solar reflective coating that incorporates 'ceramic' technology for thermal reflection and substrate insulation. Heat Guard is a heat reducing & Energy Saving coating because it helps in reducing power consumption substantially by reducing the load on air-conditioners & keeps the interiors cool with additional function of waterproofing.

Heat Guard is water borne, high builds formula that reflects the solar radiant heat, insulates, waterproofs, beautifies and protects the substrate. After drying it forms a film of exceptional strength and durability that gives excellent resistance to water as well as solar radiations.

Technical Information

Nature: one component water thinnable

Thinner: Clean potable water [Heat Guard + 20% water] for priming

Drying time: Dry to touch – 30 minutes.

Recoating period: Minimum 6-8 hrs. at room temperature (ideally 24 hrs.)

Constro Chem India Pvt Ltd

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Coat applied on	Coverage [sq.ft./ltr./2 coat]
Plastic and metal	25 – 30
Cement slurry (1:1)	25 – 30
On asbestos roof	25 – 30
Concrete/Plastered surface	35 – 40

Temperature difference: up to 10°C

No. of coats: 2, depending upon the substrate & D.F.T. required

Finish: Rough and matt.

Dry film thickness: 150-200 microns per two coats.

Areas of Application

- ✓ Terraces and rooftops of buildings - cementitious, asbestos & metal surfaces
- ✓ Industrial & godown shades with GI or asbestos roofs
- ✓ Exterior walls of buildings
- ✓ Cold storages, computer server rooms, electrical control panel rooms, etc
- ✓ Metal & concrete storage tanks for water, chemicals and fuel in petrochemical industry

Features & Benefits

- ✓ Heat Insulation - Reduces the conductivity of heat from exterior to interior, thus lowers the temperature.
- ✓ Solar Reflectance - 83.8% solar reflectance (ASTM E-903), re-radiated heat back to atmosphere. Solar Reflective Index of 120.

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- ✓ UV and IR resistant - Resistance to UV & IR emission protects coating from damage and reduces heat conductivity.
- ✓ Microbial resistant – Resistance to algae and fungus growth results into lesser maintenance.
- ✓ Non-Toxic water based system - Eco friendly
- ✓ Energy Saving - Reduction in electrical consumption for air-conditioners, saves energy cost

Method of Application

DIRECTION FOR USE

- ✓ Adequate surface preparation as given below is necessary for product performance.

SURFACE PREPARATION

NEW MASONRY

- ✓ HEAT GUARD Solar Reflective Coating should not be applied to fresh concrete and to other surfaces less than seven days old. Ideally concrete should be allowed to cure for 28 days before application. Power wash to ensure no under bound sand or cement remains on the surface. Allow the surface to dry and apply Heat Guard Solar Reflective Coating.

EXISTING MASONRY

- ✓ Power wash to remove all loosely adhered coatings, dirt, mild dew and other contaminants.
- ✓ Fill any existing cracks up to 3mm with Crack Guard (Acrylic Crack filler) paintable sealant. And more than 3mm with Repair Guard (Ready to use Polymer Repair Mortar)

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PLASTIC SURFACE

- ✓ Clean the surface with water and allow it to dry. Scuff with fine emery paper 320.
- ✓ Clean with water once again. Apply HEAT GUARD.

METAL SURFACE

- ✓ Scuff with fine emery paper 320. Clean the dust with dry cloth then apply HEAT GUARD.

APPLICATION OF HEAT GUARD

HEAT GUARD Solar Reflective Coating can be applied only by brush. The material is to be diluted with specified percentage of water. Dampen the surface slightly with water. Apply first coat at the spread rate of 4.0 - 4.5 m2/ltr. Allow it to dry for minimum 6 hrs. (Preferably 24 hrs.) Before application of second coat. Apply second coat of HEAT GUARD Solar Reflective Coating at the spread rate of 4.5 – 5.0 m2/ltr. After thinning it with specified percentage of water.

PRECAUTION

- ✓ The substrate should be free from Chalking
- ✓ All dust, grease and loose paints, powdery particles, fungus and algae need to be completely removed from the walls.
- ✓ Fill the existing cracks more than 3mm in size with REPAIR GUARD.

For better product performance / capability:

- ✓ Do not over-extend the brush.
- ✓ Clean the coated surface with water periodically may be after every 6 months.

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- ✓ No ponding of water is recommended on the coated surface.

Packaging

5 kgs. & 25 kgs.

Shelf life

12 months in original packing if stored at room temperature i.e.25°C.

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