



## DESCRIPTION

**SUNSHIELD-100** 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. Solar reflective coating is water borne, high builds formula that reflects the solar radiant heat, insulates, sound proofs, beautifies and protects the substrate. After drying it forms a film of exceptional strength and durability that gives excellent resistance to solar radiations.

## TECHNICAL INFORMATION

### CARATERISTICS

Nature	: one component water thinnable
Thinner	: municipal or portable water [Solar reflective coating + 40% water]
Drying time	: dry to touch – 30 minutes.
Recoating period	: minimum 6-8 hrs. at room temperature (ideally 24 hrs.)

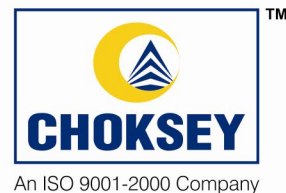
Coverage on Asbestos panel (1 sq.ft.)

<u>Coat applied on</u>	<u>Coverage [sq.ft./ltr./2 coat]</u>
• Concrete substrate	: 20 - 25
• Plastic and metal	: 25 - 30
• Cement slurry (1:1)	: 25 - 30
• On asbestos roof	: 25 - 30

Temperature difference	: up to 10 <sup>0</sup> C
No. of coats	: 2, depending upon the substrate & D.F.T. required
Shades	: as per shade card, (light shades will give better solar reflectance.)
Method of application	: by brush.
Finish	: rough and matt.
Dry film thickness	: 150-200 microns per two coats.

# **SUNSHIELD-100**

100% Pure Acrylic Solar Reflective Waterproof



Adhesion on

- Concrete : Excellent
- Asbestos : Excellent
- Metal and plastics : Excellent

## **FEATURES / ADVANTAGES**

- SUNSHIELD-100 gives temperature difference from 6°C to 8°C in surface temperature.
- Resistance to chalking and flaking.
- Ultra violet resistance for outstanding durability.
- Available in attractive light shades, white is recommended
- Aesthetic appeal and protection against water and carbon dioxide penetration.
- Waterborne chemistry for uncomplicated handling and clean up.
- Suitable for brush methods of application and optimize rheology for high film build in one coat.
- Breathability for preventing moisture build up in walls and roofs (MICROPOROUS)
- Can be applied on slightly damp surfaces too.

## **TYPICAL APPLICATION**

**SUNSHIELD-100** is mainly designed for :

- Exterior RCC surfaces, masonry walls or facades.
- Asbestos sheets, sloping roofs, farm sheds.
- Water storage tanks of metal, plastic, cement etc.
- Warehouses, godowns, cold storages.

## **DIRECTION FOR USE**

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

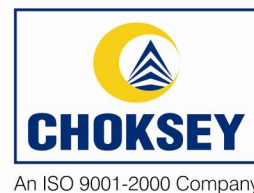
### **SURFACE PREPARATION**

#### **NEW MASONRY**

**SUNSHIELD-100 Solar Reflective Coating** should not be applied to 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 **Sunshield-100 Solar Reflective Coating**.

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## **EXISTING MASONRY**

Power wash to remove all loosely adhered coatings, dirt, mildew and other contaminants. Apply **biowash** to the surfaces affected by algae and fungi followed by a jet of water after half an hour (refer literature of Choksey's BIOWASH). Fill any existing cracks up to 3mm with **PAINTEX-4** (Acrylic latex Caulk) paintable sealant. And more than 3mm with polysulphide sealant.

## **PLASTIC SURFACE**

Clean the surface with water and allow it to dry. Scuff with fine emery paper 320. Clean with water once again. Apply **SUNSHIELD-100**.

## **METAL SURFACE**

Scuff with fine emery paper 320. Clean the dust with dry cloth then apply **SUNSHIELD-100**.

## **APPLICATION OF SUNSHIELD-100.**

**SUNSHIELD-100 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 m<sup>2</sup>/litr. Allow it to dry for minimum 6 hrs. (Preferably 24 hrs.) before application of second coat. Apply second coat of **SUNSHIELD-100 Solar Reflective Coating** at the spread rate of 4.5 – 5.0 m<sup>2</sup>/litr. 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.
- Apply **BIOWASH** on the walls to remove remaining traces of fungal/ algae and allow it to stand for one hour.
- Clean the walls after one hour with water jet to remove the biowash applied and wait for one hour.
- Fill the existing cracks more than 3mm in size with suitable sealant of **CHOKSEY CHEMICALS PVT.LTD.** For better product performance / capability.
- Do not over-extend the brush.
- For better results clean the coated surface with water periodically, may be after every 6 months.
- No ponding of water is recommended on the coated surface.

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TM

An ISO 9001-2000 Company

### **PACKING**

4ltrs. And 20ltrs.

### **SHELF LIFE**

18 months in original packing if stored at room temperature i.e. 20° C – 35° C.