



S100 SOLAR GUARD

HEAT REFLECTING AND INSULATING PAINT TO KEEP BUILDINGS COOL

USES

- **Thermal reflector** for rooftops and exterior walls
- Use on **clay, metal, wood and cement surfaces**
- Used as **UV-protective coating** for most bitumen and PU Coatings to extend service life



FEATURES

- Anti-infrared rays & low heat conductivity hollow ceramic particle added to reduce indoor temperature. Keeps the building very cool.
- Breathable and high adhesion to substrate
- Low dirt pick-up due to non-static property
- Polymer-based for metal surfaces
- Silicate-based for cement surface; low water permeability
- Water-based; tools used can be cleaned easily
- User-friendly, non-toxic and environmentally friendly

APPLICATION METHOD

- Ensure surfaces to be treated are clean and dry.
- Apply with roller, brush or spray gun.
- Apply **S100** evenly on surface. Thin multi-coatings are recommended as single heavy coatings may crack.
- Allow to dry for **30 minutes** before applying the next coat.
- Clean tools with water after use.
- **Coverage: 45 - 50 m² / 18 kg-pail (2 coats, thickness 0.3 - 0.4 mm)**

TECHNICAL DATA

Comparison of Surface Temperature of Various Substrates

TYPES OF SURFACES	UNCOATED	COATED WITH S100	COATED WITH A TOP BRAND PAINT
RESULT	68°C	42°C	50°C
TYPE OF TEST	Surface exposed to afternoon sun for 1 hour (13:00, Singapore)		
Heat Transfer Coefficient	0.065 watt/m . K.	ASTM C518.04	

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WOODEN SURFACE	WOODEN SURFACE	WOODEN SURFACE
UNCOATED	COATED: FLEXICOAT (GREY)	COATED: FLEXICOAT (WHITE)
TEMPERATURE: 61.1 °C	TEMPERATURE: 65 °C	TEMPERATURE: 48.9°C
WOODEN SURFACE	MASONRY SURFACE	METAL ROOFING
COATED: S100 SOLAR GUARD	COATED: S100 SOLAR GUARD	UNCOATED
TEMPERATURE: 42.2 °C	TEMPERATURE: 39 °C	TEMPERATURE: 58 °C

PACKING

18 kg / plastic pail

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