1k, Flexible, waterproof, heat-reflecting coating

PROXON HEAT GUARD

PROXON HEAT GUARD is a single-component, acrylic-based, flexible, waterproof, microfiber reinforced coating that reflects heat and reduces temperature.

What

PROXON HEAT GUARD is a single-component, acrylic-based, flexible, waterproof, microfiber-reinforced coating that reflects heat and reduces temperature. It provides superior protection and durability for various surfaces.

Usage

PROXON HEAT GUARD is suitable for roofs, terraces, walls, concrete, masonry, metal, asbestos, wood, HP tiles, PU foams, and cold storage. Enhances heat reduction when applied over existing systems.

Why?

- Minimal surface preparation
- Crack bridging elastomeric
- UV & IR resistant
- Anti-algal, anti-fungal
- Strong substrate adhesion
- Energy-saving, washable

How to use?

- Surface must dry
- Remove dust, grease
- Abrade metal surfaces
- Clean existing coatings
- Apply primer coat
- Use two coats

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Application

Surface Preparation:
Concrete and masonry must be at least 14 days old with moisture content below 7%. The surface should be dry, free from dust, grease, oil, and contaminants. Cleaning can be done using wire brushing, grit blasting, or high-pressure water jetting. Bitumen-based membranes must be removed. Old terraces should be checked for cracks and repaired with **PROXON PATCHREP FR** or **PROXON SBR MORTAR**. Metal surfaces should be abraded to remove rust and existing paint, with rusted sheets primed using an anti-corrosive primer.

Priming:
Apply a primer coat using **PROXON HEAT GUARD** diluted with 20% clean water for better bonding.

Mixing:
Stir **PROXON HEAT GUARD** well for a homogeneous mix before application.

Application:
Once the primer dries, apply **PROXON HEAT GUARD** using a brush, roller, or airless spray. Apply at least two coats (3-4 sqm/-coat), ensuring each coat is fully cured before the next.

Curing:
PROXON HEAT GUARD is self-curing.

Cleaning: Clean tools with water immediately after use.

Packing

5/20 kg packs

Shelf life

Can be stored in cool, dry, shaded conditions. Shelf life is 12 months when protected from sunlight, extreme temperatures & humidity. In tropical climates, store in a cooled environment to prevent deterioration.

Safety Measures

PROXON HEAT GUARD contains no hazardous substances. Wear protective gear like gloves, goggles, and a face mask. Avoid ingestion; seek medical help if swallowed. Rinse skin or eyes with water if splashed. Refer to the MSDS for details.

Physical Properties

Appearance	White pasty consistency
Density	1.2 gm/cc
Solids content	60% ± 2% by weight
Elongation at break ASTM D 412	150%

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Thermal conductivity	0.031 w/mk
Solar reflectance	>91%
Tensile strength ASTM D 412	1.5N/mm²
Adhesion to substrate ASTM D 4541	>1 N/mm²
Shore hardness	25-35
Accelerated weathering (2000hours)	No visible crack, deterioration & reduction in flexibility
Application temperature	5 °C to 50 °C
Touch dry	2 hrs at 25 deg C
Recoatable	3-6 hrs at 25 deg C
Full cure	7 days
DFT	300 microns

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