

SOLARCOAT

UV Resistant, Acrylic Based, Waterproofing and Heat Insulation Material

Description

SOLARCOAT is UV resistant, acrylic based, single component, elastic waterproofing and heat insulation material that used for reducing the interior temperature of the buildings with reflecting radiant heat energy and minimize the surface temperature with its micro-spherical particles. Through heat ceramic micro-spheres contained in the product, the protection system provides energy saving up to 25-30%. The sun's rays reflecting back 95%. The UV's rays reflecting back 85%.

Fields of Application

- In roofs and walls of buildings.
- In concrete, plaster, stone, metal, brick, wood and decorative coating.
- In exterior surfaces under influence of marine areas.

Features and Benefits

- Single-component ready to use, easy to apply.
- Water-based, non-toxic and non-flammable.
- Reduces interior temperature of the residences and cuts down costs by reducing energy consumption in cooling.
- High adhesion performance.
- Prevents mold and fungus forming.
- Forms crack bridging and protects elasticity.
- Resistant to UV lights.

Technical Data

Content	Acrylic resin
Appearance	Colored paste
Density	1,35 – 1,45 kg/cm ³
Viscosity	7000-10000 cps
pH	8-10
Solid Content	68±2%
Shore A Hardness	65-70
Adhesion Resistance	≥1 N/mm ²
Crack Bridging	≥2 mm

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Elongation at Break	≥260%
Water Vapor Permeability	Class 1 (1m)
Water Absorption	< 0,1 kg/m ² .h ^{0,5}
UV Resistance	No cracks
Heat Reflection	≥95%
Thermal Conductivity	0,09 W/m ² .K
Drying Time	12 hours
HS Code	3209.10.00.00.11

Application Procedure

Preparation of Substrate

The application surface must be clean and dry and free from grease, rust, dirt, mold, etc. Cracks and loose parts must be repaired. For obtain better adhesion, surface should be sanded. Surface should be primed with using **SPR 104**, for better adhesion and saturation of high absorbent surface. Metal surface should be primed with anti-rust primers.

Application Method

Application surface should be primed with proper primer and then waited drying. **SOLARCOAT** should be applied with brush, roller or airless spray gun as two or more layers. Waited 4-8 hours between the coats. After the application of last coat, surface should be dried within 24 hours and protected from direct sun light, wind, frost and rain in this time. In large areas, surface should be divided by masking tape to obtain more uniform appearance.

Consumption

1,30 – 1,80 kg/m² for 2 layers. Recommended at least 2 layers application.

Packaging

20 kg plastic bucket

Shelf Life

12 months in original, unopened package.

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Storage

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

Cleanup Information

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Cautions / Limitations

- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +10°C and above +30°C.

Health and Safety

Warning! Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

Limited Warranty: This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.