

Product Description

CERAKOTE is a high-grade acrylic coating with ceramic hollow glass microspheres for heat reflective and waterproof coating. The unique properties of fine spherical particles provide superior solar reflectance and act as thermal barrier. The elastomeric polymer offers excellent waterproofing. CERAKOTE is ideal for roof, wall, or facade coating to protect building from heat and reduce energy consumption.



Uses & Applications

CERAKOTE is typically used by brush or spray on the following areas:

- Metal roof, decks.
- Concrete roof, wall, and facade.
- Silos, cold storage tanks.
- Pipe, electrical equipment boxes.
- Surfaces include metal, concrete, brick, stucco, timber.

Key Benefits

- Excellent Solar Reflectance Index (S.R.I).
- Conserve energy from air conditioner up to 40%.
- Reduce building temperature for 5-10 °C.
- Flexible and high adhesion to various surfaces.
- UV resistance, non-yellowing.
- Waterproofing.
- High elongation, crack bridging.
- Resistance to chemical and deterioration from weathering; non-chalking.
- Noise reduction on roof during rainfall.
- Protect metal from rust and corrosion.
- Easily handled and environmental-friendly.

Application Instructions

SURFACE PREPARATION

- Concrete substrate – All surfaces must be free from oil, grease, dirt and poorly adhering matter. If cracks are presented in the substrate, repair with CLEVCON REPAIR-M first. Ensure the slope of substrate to prevent water trapping. Chamfer the edge, corner, wall to floor joint properly.
- Metal substrate – Ensure surfaces free of rust or corrosion. Corroded areas must be properly cleaned and removed all rust scale and surface contaminants. Apply anti-corrosive metal primer before top coating.

PROTECTIVE COATING

Technical Data

PRIMING

- Apply CLEVCON PRIMER-W at the rate of 0.12 kg/ m²

APPLICATION

- For brush or roller application, apply CERAKOTE directly from container without thinning over prepared surface.
- In the application with airless spray, water may be added to improve viscosity (approximately 10%.) Stir well before use.
- It is recommended to apply at minimum 2 coats to achieve sound and durable coating.
- Time interval between each coat is approximately 1-2 hours.
- Apply the newer layer in the opposite direction with the previous one.

CLEANING

- Tools and equipment should be cleaned whilst screed is still wet using clean water. Hands and skin should be cleaned immediately with clean water.

PRECAUTIONS

- Application temperature should be between 5°C and 35°C.
- Do not apply in full sunlight. Substrate temperature should be between 0°C and 60°C.
- It is not recommended to use CERAKOTE in ponding area.

CHARACTERISTICS	RESULTS	TEST METHOD
Solid Content	60 % by weight	-
Density	1 ± 0.02	ASTM D1475
Viscosity	20,000 cps	Brookfield Viscometer
Hardness	~50 Shore A	ASTM D2240
Thermal Emittance	0.90	ASTM C1371
Solar Reflectance	92.8 %	JIS R3106
Solar Absorptance	7.2 %	JIS R3106
Solar Reflective Index	Over 114	ASTM E1980-01
Elongation at Break	350 %	ASTM D412
Tensile Strength	0.6 N/mm ²	ASTM D412
Pot Life	1 hour	-
Interval Time Between Coat	~2 hours	-

Application guidelines

Area	Application Rate	No. of Coat	Total DFT.	Coverage per pail
Metal Roof	0.5 kg/m ² /coat	2	600 microns	18 m ²
Concrete Roof	0.5-0.7 kg/m ² /coat	2	~700 microns	13 – 18 m ²

* Coverage rate may vary due to porosity of surface including application method. Field trials are recommended.

Safety Instructions

Wear appropriate protective equipment such as gloves, safety glasses or goggles, protective clothing during use. In case of eye contact: promptly wash eyes with plenty of water. Continue to rinse for at least 15 minutes and consult physician immediately.

Packing

18 kg. per pail.

Standard color available in white, grey and red.



* Colors may vary from actual product due to print quality.

Storage & Shelf Life

Material must be kept in-door at room temperature, avoid expose of direct sunlight. Product Shelf life is 12 months in unopened package and under suitable storage condition.

PROTECTIVE COATING

Disclaimer: The information provided in this document is based on our knowledge and experience of the product. In actual application results may vary because of site conditions, application methods and other factors that beyond our control. Users are recommended to test out product performance before actual use. Any data contained in this document, including our sale person or staff consultation is in no way constitutes a warranty relative to the use of our products. Our general terms and conditions of sales shall prevail. The superseded version of this datasheet may be issued without prior notice. Customers and users are encouraged to check with our staffs for the latest version of this document.

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