

Technical Information

Power-SunTherm/CoolRoof

Single component roof surface coating system based on crylate, reflects up to 95% infrared-A radiation, fills any crack, is resilient, elastic, and watertight, has very good adhesion capabilities, contains fungicidal agents, and is anti-corrosive.

Product description

Power-SunTherm/CoolRoof has high infrared-A reflecting properties (95%) and protects all roofs from excessive heat; thus, it is most suitable as thermal protection during summertime. Even the colour „brick-red“ still has infrared-A reflecting properties of up to 61%. This amounts to expenditure reductions for air-conditioning systems in factories, residential buildings, livestock husbandries, etc. Power-SunTherm/CoolRoof bridges periodic changes in cracks, even if the temperature drops below -20°C. It is resistant to commonly occurring atmospheric gases. Since the material is thermoplastic, a tendency to collect dirt or debris on horizontal surfaces is to be expected.

Application

It is used to protect roofs from extreme heat and prevents high air-conditioning cost if bituminous surface treatment was used on roof and/or sealing panels, etc., while at the same time, bridging expansion gaps as well as gaps on tin roofs. It is most suitable on weathered fibre-reinforced cement panels, cement and clay bricks, as well as concrete blocks. If using asbestos cement, compliance with TRGS 519 is mandatory! (Technical regulation: hazardous material). Prior to applying Power-SunTherm/CoolRoof a priming coat (DeepGround) must be used.

Base

The base must be able to bear the load; it must be clean, dry, and free of oil, grease, and dust. Furthermore, all components acting as mould release agents must be removed. Any corrosion and/or dust must be removed. Galvanized sheet metal surfaces and steel sheet parts, which have not been subject to substantial weathering, can be treated with 7% hydrochloric acid and subsequently neutralized with plenty of water. Plastomere bitumen sheets (APP) must have been subject to weathering for at least 6 months

Processing

Power-SunTherm/CoolRoof may be painted, rolled on, or sprayed using an airless spray gun. When using a spray application, all filters must be removed from the equipment and a minimum nozzle size of 0.79 mm is required. When painting, a brush or aerial applicator should be used applying the coating with quick strokes and without overlaps; short pile lambs wool rollers are most suitable for roller applications. However, a spray application is recommended. All equipment should be wetted with water prior to starting work. After use, all containers must be closed and well sealed.

Quality

The use of approved and continuously tested raw materials guarantees consistent quality. State-of-the-art manufacturing facilities ensure dependable product properties.

Form of delivery: 30 litre containers

Technical Data

Density: approx. 1.20 g/cm³
Coverage: approx. 250-300 g/m² per layer, depending on base (minimum thickness after drying and per layer 125 µ)

Steps: min. 2 steps; first layer is used as adhesive coat and should be diluted with 10-15 % water

Application temperature of base: min. +8°C to max +50°C
Waiting period between steps: at least 16 hours at 23°C

Dust-dry: approx. 2 hours at 23°C and 60% rel. humidity
Hard-try: approx. 24 hours at 23°C and 60% rel. humidity



Available colours



brick-red

light-gray

white

The colours shown here are printed colours, which are similar to the original colours and shall only be considered as reference. Slight deviations from the original colours are unavoidable and shall not give rise for complaint.



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