

Technical Data Sheet

ONE-COMPONENT, WATER-BASED ACRYLIC ROOF COATING

DESCRIPTION

Orbit Nano Cool Coat is a one-component high-build acrylic-based flexible Roof coating. The dry film possesses superior physical properties. The dry membrane is watertight, seamless, durable, tough, flexible, and weather-resistant.

Orbit Nano Cool Coat utilizes the latest in acrylic technology and nano UV absorbers to produce UV- resistant membranes with excellent durability even in harsh/hot tropical & dry desert climatic conditions.

TYPICAL USES

Orbit Nano Cool Coat may be used for the following situations:

- Heatproofing & waterproofing of roofs (cement based as well as metal roof substrates).
- Heat Proof and waterproofing coating for plastered walls.
- Weather Roofing over the old, refurbished roof.

ADVANTAGES

- One-component ready-to-use, lightweight compared to the conventional roof coating system.
- Formulated to withstand harsh Tropical & dry desert climatic conditions.
- Eco-friendly and non-hazardous green products.
- Highly flexible and UV-resistant
- Good crack Bridging capability reinforced with Microfiber.

TECHNICAL DATA

- Appearance: White Colored Thick Liquid
- Full Cure: 72 hours
- Specific Gravity: 1.4 + 0.1
- Solids Content: 55 ± 5% (ASTM D2369)
- Elongation (ASTM 2370) Before Aging -up to 250%
- (ASTM 2370): – After aging for 30 days at 80 degrees C – to 175%
- Water Absorption: Less than 20% (Tested for 7 days)
- Service temperature: 0°C - 80°C
- SRI as per ASTM 1980 – 100
- Recommended DFT – 200 to 250 microns



SURFACE PREPARATION

Surfaces must be dry and free from oil, dust, dirt, grease, and loose materials. The substrate should be firm, in case of gaps and cracks fill it with suitable sealant and ensure the surface is level.

Substrate Priming (Optional)

Primer: Orbit Nano Prime a water-based high-performance primer to be used for excellent bonding and consistent performance.

APPLICATION

Stir well before use. Do not apply if rain is expected within 24 hours. Apply the material using a brush/roller/spray. A second coat is applied at the right angle after the first coat is dry in case of brush/roller application. It is recommended that 2 coats of Nano Cool Coat be applied for optimum performance and to get a dry film thickness of approximately 200 - 250 microns. Multiple coats can be applied to achieve higher thickness.

CURING

It requires 4 - 5 hours to dry in between each coat and 72 hours of drying is adequate for complete film-forming and foot traffic. Low temperature and high humidity will slow down the curing process. 7 days are required to attain full strength. In case of expected rains within 4 to 5 hours, do not apply.

EQUIPMENT CLEANING

Orbit Nano Cool should be cleaned from equipment using soap and water immediately after application.

DURABILITY

The life of the coating is up to 10 years. Warranty is offered for 5 years.

PACKAGING & YIELD

Orbit Nano Cool is supplied in 18L packing with a coverage rate of 45 m² double coat layers.

