

Cool Barrier Roof Primer

USER FRIENDLY LIQUID APPLIED ROOF PRIMER



DESCRIPTION

Cool Barrier Roof Primer is a cold-applied, one-component waterborne liquid applied bonding primer elastic and UV-resistant. It is suitable for use in all climatic conditions.

USES

- For exposed roof waterproofing solutions in both new construction and refurbishment projects
- For exposed roofs with many details and complex geometry when accessibility is limited
- For reflective roof coatings and membranes to enhance the bleed through resistance.
- Suitable for modified bituminous membranes.

CHARACTERISTICS / ADVANTAGES

- UV resistant and resistant to yellowing and weathering
- Highly elastic and crack-bridging
- Non-toxic and VOC compliant water based coating
- One component - ready to use
- Excellent adhesion on porous and non-porous substrates
- Water vapour permeable

PRODUCT INFORMATION

Chemical Base: Polyurethane modified Acrylic Dispersion

Packaging: 18 lit and 20 lit plastic pails

Colour: Milky, liquid form

Shelf Life: 12 months minimum from date of production if stored properly in original, unopened and undamaged sealed packaging

Storage Conditions: Store in dry conditions in original packaging at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost.

Density: 1.3 kg/l

Solid content by volume: 52 %

Service Temperature: -5 °C min. / +80 °C max.

Product Application

Build up: Cool Barrier Roof Primer (applied in minimum of 2 coats)

Substrates: Modified bituminous membranes. For other roofing membranes types, please suggest our technical department.

Total consumption: 1 lit per 2 sqm

APPLICATION INFORMATION

Ambient Air Temperature +8 °C min. / +40 °C max.

Relative Air Humidity: 80 % max

Substrate Temperature: +8 °C min. / +40 °C max.

Dew Point: Beware of condensation. Surface temperature during application must be at least +3 °C above dew point.

Substrate Moisture Content: < 5 % moisture content. No rising moisture according to ASTM (Polyethylene-sheet). No water /moisture / condensation on the substrate.

Waiting Time / Overcoating

Minimum 4 hours and Maximum 1 week * at Substrate Temperature +10 °C and Relative Humidity 50 %.

* Assuming that all dirt has been removed and intercoat contamination is avoided.

Note: Times are approximate and will be affected by coating thickness and changing ambient conditions particularly temperature and relative humidity. Low temperature and high humidity retard curing, while high temperatures and low humidity accelerate curing progression.

SUBSTRATE PREPARATION

All substrates must be cleaned and prepared using high pressure water jet. Abrasive blast cleaning, scarifying equipment to or other suitable approved mechanical methods. Bituminous felt: Ensure that Bituminous felt is firmly adhered or mechanically fixed to the substrate.

MIXING

Prior to application, stir Cool Barrier Roof Primer thoroughly for 1 minute in order to achieve a homogeneous mixture using a slow speed (300 - 500 rpm) drill and basket type paint mixer.

Application Notes

Please note, always begin with detailing works prior to applying on roof surface.

Tools:

High Pressure Jet Washer (minimum 150 bar): If dust, vegetation, moss / algae or other contaminants are present on the existing roof, a power washer is required to clean the substrate prior to the application

Existing chippings should be removed by hand or scabbling prior to power washing.

Squeegee: Useful when removing excess water from the roof after overnight rain

Drill and paddle: Cool Barrier Roof Primer should be mixed for one minute using a slow speed (300-500 rpm) drill and basket type paint mixer.

Solvent resistant short-piled roller: Used in the application of Cool Barrier Roof Primer to ensure a consistent thickness of the seamless Cool Barrier Roof Primer

Thick hair brush: For application of Cool Barrier Roof Primer to all details and penetrations.

Airless spray equipment: Used only for the roof coating systems / top coats systems. Two spray applied layers is the minimum requirement.

The pump should have the following parameter:

- minimum pressure: 220 bar
- minimum output: 5.1 l/min
- minimum \varnothing nozzle: 0.83 mm (0.033 inch)

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically

LIMITATIONS

- Do not apply Cool Barrier Roof Primer on substrates that have rising moisture.
- Always apply during falling ambient and substrate temperature. If applied during rising temperatures "pin holing" may occur from rising and expanding air.
- Ensure that each coat of Cool Barrier Roof Primer is totally dry and the surface is without pinholes before applying further coats.
- Do not apply Cool Barrier Roof Primer if inclement weather such as rain, fog or extreme humidity (80 % maximum) causing condensation is expected.
- Ensure that the applied Cool Barrier Roof Primer has sufficient curing time before any such inclement weather is expected.
- Do not allow temporary ponding or moisture (Dew, Condensation etc) to remain between coats on any horizontal surfaces or until the final coating has totally cured.
- Brush or mop surface water away during this time.
- It is recommended to carry out Adhesion and Compatibility tests with the Primer prior to application of following coats.

- Cool Barrier Roof Primer and the subsequent Top Coats should not be applied on roofs subject to long-term ponding water especially with subsequent periods of frost. In cold climatic zones for Roofing structures with a pitch of less than 3 % appropriate drainage measures must have to be considered.

- Cool Barrier Roof Primer and the subsequent Top Coats should not be subject to permanent water immersion.

- Overcoating Cool Barrier Roof Primer after pro-long period exposure, requires adhesion tests.

Disclaimer and Legal Notes

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. The information, and, in particular, the recommendations relating to the application and end-use of Abolin products, are given in good faith based on Abolin's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Abolin's recommendations.

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ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.