



**Green Build
Egypt**
Experience and Innovation

BLOCKTHERM

بلوك ثيرم

Heat Reflective, Acrylic based, UV Resistant, Thermal and Water Proof protective coating

Technical Specifications

- Color: White, Gray and special colors upon request
- Density : 1.02 gm/cc.
- Solid Content: 56.5 %.
- Application temp: 5-45 ° C.
- Exposing Temperature: -5 to 70° C.
- Second Coat: 2 hours.
- Elongation at Break: up to 300%.
- Solar Reflectivity: 86 %
- Crack Bridging: 1 mm ASTM C836.
- UV resistance @200 hours exposure: Passes ASTM G53.
- Water Resistance: 0.68 Kg./m²/H (W3).
- Hardness: H2.

Application and Rates

- Application rate; 0.7 - 0.8 Lit/ m² according to the roughness and nature of metal surface.
- **BlockTherm** supplied in pails packs measuring 10 Lit.
- Applied by brush roller or preferably by spraying machine.

Product Handling and Storage

- Store all material in a cool, covered dry place. Do not expose the pails to direct sunlight and keep away from all sources of heat. In tropical climatic conditions, the product has to be stored in an air- conditioned environment and protected from high humidity.
- The shelf life of the product is 12 months in unopened condition if stored as per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.



- BlockTherm features:

- A high performance, single component acrylic based, easy to apply, excellent solution as a strong barrier for heat transfer inside the buildings.
- Easy maintenance coating with long term recoatability properties.
- Reduce notably the electricity required for interior cooling.
- Effective heat insulation and reduce thermal conduction.
- Very strong waterproofing properties for all substrates.
- Excellent UV resistance and overall durability properties.
- Water-based, Non-Toxic, Low VOC, and Environmental Friendly product.



Applications

- Concrete roofs, sloped or flat.
- Roofs covered with cement based or cladding tiles .
- Terraces, Domes, or Balconies
- Could be used effectively over GRC applications, or Gypsum Boards.
- Could be applied over dry coat and Graviato building facades.
- **BlockTherm** is used in all areas where thermal barrier and waterproofing coat is needed.

Health and Safety

As with all construction chemical products, caution should always be exercised.

Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Application Procedure:

Surface preparation: Proper care should be taken while executing it. The surface should be wet , free of any old paint, oil and grease, and any other contaminants, which may affect the bonding between **BlockTherm** coat and the building surface

Priming: Dilute the **BlockTherm** with clean water in 10-20 % and mix well till homogeneity and apply in a thin layer as primer coat.

Mixing Mix well the contents of the pack until homogenous paste is achieved, in some cases and when needed the product is thinned with 5-10 % water to achieve the required consistency for brushing, rolling, or spraying by machine.



Application **BlockTherm** has to be applied and spread evenly on the concrete surface with suitable application. The coating may be applied also by airless spray to get a higher application rate and evenly surface.

-Application by brush roller, or airless spray to get a uniform film over the concrete or building surfaces.

Cleaning Clean all tools & equipments with water immediately after use. Hardened materials can be removed mechanically only.



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