

# HEAT BLOCK

Thermal Insulation Exterior Grade Coating for Roofs and Walls

Product # R115.24

Version no: 15.01.25

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**PRODUCT DESCRIPTION:** Heat Block is a unique formulation have waterproofing properties and heat reflecting pigments to reflect solar energy, especially energy in the infrared spectrum. Product is based on exterior grade liquid rubber which ensures very high exterior performance. This significantly reduces heat transfer into indoor areas, which reduces average indoor temperatures by 5°C and reduces dewing to improve the coating's durability. When applied to the exterior of a building, Heat Block reduces internal heat gain from walls and roofs to help keep the interior cool and reduce use of air conditioning. And, like any other Fibrex product, it is designed for easy application and results in a long-lasting and beautiful finish. A breathable, elastomeric waterborne topcoat, Heat Block uses an advanced hybrid resin technology to ensure excellent anti-carbonation properties and crack-bridging ability. Thanks to the combined effect of heat reflecting pigments and glass microspheres with sol gel, Heat Block increases the total solar reflection by more than 100 percent compared to conventional coatings. This significantly reduces the transfer of heat into indoor areas, which reduces average indoor temperatures by 5°C and cuts cooling time and cost. As a result, Heat Block can reduce a building's energy consumption by 5 percent.

## AREAS OF APPLICATION

- Stone Tiles
- Clay Bricks
- Concrete
- Plastered Walls & Roofs
- Metal Sheets

## ADVANTAGE

- Unique thermal insulation properties.
- Proven energy-saving capabilities.
- Waterborne coating.
- Low maintenance and long life
- Excellent anti-carbonation and anti-fungal properties.
- Lower heat cycling stress.
- Outstanding UV resistance and weather stability.
- Beautiful finish
- Wide range of pastel and light colors.
- Can be applied with textured rollers.

## APPLICATION METHODOLOGY

### SURFACE PREPARATION

Cement bound surfaces must be dry, firm, offer good traction, free from loose particles, dust, dirt and additionally free of oil, grease and other impurities which can adversely affect uniform adhesion. If considered necessary, the surface should be sand blasted, flame scaled, milled or grinded. Iron and steel must be free of rust and scale and should be free from oil, dust and grease and other dirt particles. The best method of preparation is to flame scale or sandblast.

### MIXING

Heat Block requires no pre-blending and should be used directly from the container but stir well before use.

### PRIMING

Mix 40% water in the heat block and use it as a primer to prime the surface.

### APPLYING AND LAYING

Apply at a uniform coverage by brush or roller application. If roller applied, use a short napped, solvent resistant sleeve.

## CLEAN UP

Clean all tools immediately after use with water. Do not allow material to harden. Any hardened material will need to be removed mechanically.

## TECHNICAL SPECIFICATIONS

Consistency/Color	Thick Liquid/White
Specific Gravity	1.2±0.2
Total Solid Content	70±5 %
Application Temperature	10°C to 40°C
Drying Time & Over coat time	3.5 to 4 hours @30°C & 80% RH
Average Adhesion strength (ASTM D4541)	1.75±0.2MPa @ 28days
Elongation at break (ASTM D412)	>400% @22°C & 55% RH
Tensile strength (ASTM D412)	3.4MPa @22°C & 55% RH
SRI (ASTM E1980)	>112
Color Retention (IS 8709)	Pass
QUV 1000 hours (ASTM G 151)	Pass
Crack Bridging (ASTM C1305)	Pass (Upto 3.1 mm)
Flammability	Non Flammable
Anti-carbonation (BS EN 1062-6:2002) CO2 Diffusion coefficient	8.93 x 10 <sup>-8</sup> cm <sup>2</sup> s <sup>-1</sup>
Flexibility ASTM D522	Pass
Consumption for Roofs	Heat Block – 1.6kg/m <sup>2</sup> /1mm(two to three coats)
Consumption for Walls & Metal Sheds	Heat Block – 1.6kg/m <sup>2</sup> /1mm(two to three coats)

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# Technical Data

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.

## LIMITATIONS

- Do not apply Heat Block on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %. Consult fibrex before using Heat Block in those areas.
- Do not apply Heat Block to asphalt, weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially e.g. steel walkways.
- Do not apply Heat Block over treated expansion joints.

## Please contact FIBREX for installation of floor coating over

- Oil / Fat rigged floors
- Floors with moisture content over 4 %
- Floors with rising moisture problem
- Asphalt based floor (interior)
- Floors with a pull off strength less than 1.5 N / mm<sup>2</sup>

## PACKAGING

Heat Block is packaged in 20Kg bucket.

## STORAGE

Store the material at temperatures between + 10° C and + 45° C in originally sealed packages, the material can be stored for 12 months. Open containers of material should be used quickly to avoid moisture contamination.

## PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves, if necessary use a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction.

Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

## DISPOSAL / SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

## NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development, we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

## HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

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