

## BONDIT THERMOSHIELD

*(Single component heat insulation and waterproofing coating for exterior surface)*

### PRODUCT DESCRIPTION

Bondit Thermoshield is a heat insulated elastomeric coating. It is composed of emulsion polymers, heat insulation additives, properly selected and graded inert fillers light fast & weather durable white pigments, additives & water as medium. It helps in reducing power consumption effectively by reducing the load on air-conditioners & coolers thereby keeping the interiors cool with additional waterproofing properties.

The product functions on the hollow microspheres acting as micro bubbles with exceptional heat insulation property. The spherical shape of glass bubble creates stable void with low thermal conductivity. The product when applied on substrate, hollow microspheres present in them forms a closely packed structure within the dried film thereby acting as an insulation medium.

Bondit Thermoshield has the ability to maintain the interiors of externally coated surface of a building at lower temperature than outside by radiating back the solar heat into the atmosphere.

### FEATURES & BENEFITS

- Reduces the transfer of heat from exterior to interior thereby keeping the interiors cool.
- Superb solar reflectance property
- Water based and non-toxic.
- Superb weather resistance
- Good adhesion to all types of concrete.
- UV resistant and reduces heat conductivity.
- Resistant to microbial attack.
- Saves on energy cost by consuming less electricity.

### AREA OF APPLICATION

- Exterior walls of buildings.
- Terrace and rooftops of buildings- cementitious, metal & asbestos surfaces
- Godowns & industrial shades and workshops with asbestos roofs.
- Metal and concrete storage tanks in petrochemical industry for storing water, chemicals, fuels etc.
- Computer server room, cold storage and electrical control panel rooms.
- On the concrete walkway surfaces of temples and religious places.

### APPLICATION INSTRUCTIONS

**Surface preparation: on Concrete surface**



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- Surface should be cleaned with wire brush followed by vacuum cleaning to make it free of dust, dirt, cement, laitances, loose materials, mould oil etc which may interfere with the adhesion.
- Get rid of gravel pockets, ridges. Defective joints and cracks should be chased out. Treat the damaged portion with Bondit Bond Repair SBR or Grout 550.
- The surface should be made wet and damp before doing the waterproofing and avoid the formation of puddles.

## Priming

All new concrete surfaces should be allowed to cure for 6-8 weeks before applying the coating. Apply primer coat of Bondit primcoat using brush or roller at the rate of 6-8 m<sup>2</sup>/kg. Allow it to dry up.

## How to apply

- Stir and mix the content of the container well before application.
- Apply 3 coats of Bondit Thermoshield by brush, roller or spray @ 3 m<sup>2</sup>/kg for 3 coats.
- Do not dilute the product. Apply the coat only after the previous coat dries up.
- Allow the coated surface to cure for 7 days.

## Surface preparation: on Metal surface

- Metal surface should be cleaned and made free from existing paint, rust by appropriate mechanical or chemical means.
- New surface should be de-greased and cleaned well.

## Priming

One priming coat of anticorrosive primer should be applied. For GI sheets no priming is required.

## Application

- 3 coats of Bondit Thermoshield should be applied without any dilution by brush or roller.
- New coat should be applied only when the previous coat gets tack free.
- Allow the coated surface to air cure fully for 7 days

## Cleaning

The tools should be immediately cleaned with water.

## Points to note

- Bondit Thermoshield should be the topcoat. No other coating should be applied on it.
- The applied coat should not be exposed to rainwater.
- Substrate should be completely dried.
- Do not dilute the product when applied as the main coat.
- Ideal temperature of application is +5°C to +35°C with RH of 85%.

## STANDARD COMPLIANCE



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ASTM D1010, ASTM D412, ASTM D 968, ASTM E-903

## TECHNICAL DATA

### Physical characteristics

Property	Test Standard	Typical Values
Appearance		White creamy paste
Specific gravity @27°C, kg/cm <sup>3</sup>		1.15 ± 0.03
Solids (%)	ASTM D1010	≥ 60
pH Value		8-9
Surface dry time, minutes @ 27°C		20-25
Over coating time, hours		1 hour
Tensile Strength, MPa	ASTM D412	≥1.5
Elongation at break, %	ASTM D412	≥ 100

## THEORETICAL COVERAGE

Primer coat: 6-8 m<sup>2</sup>/kg

Bondit Thermoshield: 3 m<sup>2</sup>/kg for 3 coats (depending on substrate porosity)

## PACKING SIZE

5 kg, 20 kg

## SHELF LIFE & STORAGE

12 months. Should be stored in clear and dry area in an unopened packaging at ambient temperature.



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