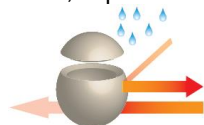


THERMOSEAL

High-Performance Heat Reflection and Waterproofing Coating

Description

THERMOSEAL is an energy-saving, waterproofing acrylic coating modified with ceramic micro-spheres designed for reducing cooling energy costs and waterproofing of all types of roofs and walls. It is a water based acrylic coating comprised of air-encapsulated, insulating particles that produce thermal insulation durable coating. **THERMOSEAL** formulated from special polymer that provides high UV and dirt pick up resistance coating with excellent adhesion to different types of substrates such as PU foam, concrete, metal, wood, asphalt...etc.



Once applied, it acts as a radiant heat reflecting barrier that improves comfort, reduces heating and cooling requirements blocks moisture, and dampens ambient noise. It is specifically designed for rooftops, houses, warehouses, mobile homes, buildings, containers, coolers, walls and sheds.

Features & Benefits

- Excellent adhesion and bonding to various substrates
- Easy to use, easy clean up, non-toxic, low VOC coating
- Reflects up to 88% of UV rays and infrared Heat
- Emissivity $\geq 90\%$ and durable for many years
- Superior dirt pick-up resistance, helps remain clean for long period reflection performance
- Improved workability, tensile strength and abrasion resistance
- Reduced shrinkage and cracking and improve flexibility
- Improves light chemical and water resistance
- Excellent waterproofing properties.
- Reduce energy consumption for cooling ($\geq 20\%$)
- Reduce temperature of roof up to 20 °C
- Durable, Long performance service life

Uses

THERMOSEAL is used as waterproofing and thermal reflection coating for building roofs, warehouses, potable cabinets, containers, sheds ...etc.

It is a perfect solution to save energy and reduce cost of cooling energy for more than 20%.

As waterproofing and protective coating for polyurethane sprayed insulation foam.

Can be applied on top of bituminous membrane as an insulation layer and to protect the membrane from atmospheric effects and against oxidation due to solar effect.

It can be used externally on most type of substrates such as concrete, PU foam, acrylics, wood, asbestos, metal, roof tiles...etc. it is the perfect solution to save energy and reduce surface heat and sound transfer through walls and roofs.

Technical Properties

Appearance	Acrylic Coating
Color	White, Off white, Lt. Grey (other colors available on request)
Mix Density	1,350 Kg/m ³ approx.
Bonding Strength	≥ 1 N/mm ²
VOC	<2 g/L
Elongation at break	300%
Solar Reflectance Index	>88%
Tensile Strength	>1.3 N/mm ²
Permeability ASTM D1653	22
Fungi Resistance	Zero growth
Crack Bridging ability	1.5mm
Water resistance	Excellent
Surface drying time	4-6 hours
Full cure	7 days

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM D 5589, D 5590, D 4589
- ASTM C 1202, C 836& E 1980
- IS 101, 2645
- EN 673, 410

Application Procedures

Surface preparation:

Substrates shall be clean, sound and free from contaminants such as oil, grease, moss, algae, dust and any existing loose or flaking paintwork.

Concrete surfaces shall be fully cured and free from laitance, mould release oils and curing compounds.

Mould or algae shall be removed with a proprietary fungicidal wash.

High pressure water jetting may be deemed necessary for heavily contaminated surfaces.

Blow holes or pitting on the surface shall be repaired with one of SBI concrete repair material. Consult SBI technical department for assistance.

High porous surfaces should be primed with diluted THERMOSEAL with 20% clean water. Treated metal surfaces which was cleaned from rust should be treated with TOPSEAL S10/ S30 before topcoat. Allow primer coat to dry before further coats.

Mixing Instructions:

THERMOSEAL is a ready to use single component product that requires to stir the content of pail before application to ensure no settled material.

Application Instructions:

Apply THERMOSEAL by brush, roller or airless spray in two crossed coats.

For slopping/ vertical surfaces, apply two coats in total coat thickness of 300-350 microns.

For flat roofs apply in total coat thickness of up to 700 microns.

Always maintain a proper wet edge by brushing/rolling into previously applied coating area.

To give additional mechanical strength at joints, edges and corners embed a layer of fiber glass or geotextile sheet between the two coats.

Coverage

Each 1 Ltr of **THERMOSEAL** will cover 6-8 m² in 100 microns dry coat thickness.

Coverage depends on substrate porosity and profile.

Packaging

THERMOSEAL is available in 20Kg Pail

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.