

Technical Data Sheet



Larsen Thermi Tech 104



Page 1/3

Description

Larsen Thermi Tech 104 is a heat reducing & 'Energy Saving' elastomeric coating composed of acrylic emulsion polymers, microspheres, properly selected & graded inert fillers, light fast & weather durable white pigments, additives & water as medium. It is used as a heat insulating coating on building rooftops & exterior walls Larsen Thermi Tech 104 reducing power consumption substantially by reducing the load on air-conditioners & keeps the interiors cool with additional function of waterproofing.

About the product

Larsen Thermi Tech 104 contains advanced material of 'Hollow Micro spheres based on Borosilicate Glass as micro bubbles' having remarkable 'Heat Insulation' property. The unique spherical shape of the glass bubble produces stable voids which results in low thermal conductivity and a low dielectric constant. When applied on substrate, the hollow micro spheres form a closely packed structure like 'Air Space' within the dry film layer that serves as insulation medium to resist heat transfer. Larsen Thermi Tech 104 has thus the ability to slow down heat transfer remarkably and keep interiors of externally coated surface of a building cooler by re-radiating most of the solar heat back into the atmosphere.

Areas of Application

- ❖ Terraces and rooftops of buildings - cementitious, asbestos & metal surfaces
- ❖ Industrial & godown shades with GI or asbestos roofs
- ❖ Exterior walls of buildings
- ❖ Cold storages, computer server rooms, electrical control panel rooms, etc
- ❖ Metal & concrete storage tanks for water, chemicals and fuel in petrochemical industry

Larsen Building Products (I) Pvt. Ltd.

Tiles & Stone Adhesive | Grouting | Screeds | Waterproofing | Admixture | Epoxy Flooring

Rajasthan Office : 208, Ganpati Tower, Amrapali Marg, Vaishali Nagar, Jaipur-302 021-Rajasthan
Head Office : A-1, TST Mansion, Tsimshatsuei Kowloon Hong Kong
E-mail : support@neolarsen.com, www.neolarsen.com • C. Care : +91-9982388929



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Features

- ✓ **Heat Insulation** - Reduces the conductivity of heat from exterior to interior, thus lowers the temperature.
- ✓ **Solar Reflectance** - 83.9% solar reflectance, re-radiated heat back to atmosphere
- ✓ **UV and IR resistant** - Resistance to UV & IR emission, protects coating from damage and reduces heat conductivity.
- ✓ **Microbial resistant** – Resistance to algae and fungus growth results into lesser maintenance.
- ✓ **Non-Toxic water based system** - Eco friendly
- ✓ **Energy Saving** - Reduction in electrical consumption for air-conditioners, saves energy cost.

Method of Application

Surface Preparation: on Cementitious Surfaces

- Surface to be applied upon must be free from dust, loose material, paint, oil, or any other material which may impair adhesion.
- Mechanical means such as wire brushing & shot blasting can be used. Finally vacuum cleaning of all loose solids and liquids can be done if required

Application

- ❖ Apply 3 coats of **Larsen Thermi Tech 104** without any dilution by brush or roller at an interval of 2-3 hours.
- ❖ Allow the coated surface to air cure fully for 7 days.

Surface Preparation: on Metal Surfaces

- ❖ Metal surface should be cleaned to remove existing paint, rust by appropriate mechanical or chemical means.
- ❖ New surface should be de-greased and cleaned well

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Technical Information

PROPERTIES

Appearance	:	Free flowing, homogeneous & uniform paste.
Colour	:	White
Solid content,	:	> 60 %
Sp. Gravity	:	1.02
Thermal conductivity	:	0.029 w/mK
Elongation,	:	200 %
Abrasion resistance	:	No wear after 450 liters of falling sand
Wind driven rain resistance	:	No moisture penetration after 24 hours.
Tensile strength @ 25°C,	:	0.280 N/mm ²
Total solar energy rejected,	:	94 %
SR I Value	:	83.9 %
Accelerated weathering (2000 Hrs)	:	Pass
Relative heat gain, (RHG)	:	30 Btu/hr/sq.ft

RESULTS

Coverage

3 m² per ltr per coat.

*Coverage may vary depending upon the texture and porosity of the surface

Packing

1,10 & 20 liter

Shelf Life & Storage

}}Shelf life is 24 months from the date of manufacturing. Store in a cool & dry place.

}}Keep away from direct sun light.

Health & Safety Precautions

- ✓Skin Contact: Wash skin with soap & water. Remove contaminated clothes.
- ✓On eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists.
- ✓Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician..

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