

Insulthane

INSULTHANE - PU coating that water proofs, insulates and breathes. Insulthane is a high performance polyurethane based (PUD) coating specially designed for use as elastomeric, water proof, UV resistant coating with a superior balance of tensile strength and elongation at break.

Insulthane, in addition to these properties, contains a special insulating additive, imported from USA, to achieve remarkable energy efficiency through superior insulation. This works by blocking heat transfer (heat flow) through the surface. Insulthane works by refracting, reflecting and dissipating radiant heat thus reducing heat build-up and heat transfer through building walls, ceilings and roofs.

How does it work?

The ceramic micro spheres in Insulthane create a thermal barrier. These particles refract, reflect and dissipate heat.

Features & advantages:

- Superior to acrylic based coatings.
- Excellent adhesion to concrete, GI, aluminium, PVC and masonry walls.
- Permanent flexibility, toughness and elastic recovery properties.
- Resistant to UV degradation by UV rays giving excellent durability.
- Very effective barrier to carbon dioxide, thereby preventing the rusting of rebars.
- Impermeable to water thus stopping moisture build up in cavity walls.
- Prevents water seepage.
- Anti algae, fungi and mildew.
- Reduction in room temperature by 2 - 6° C.
- Thermal insulating property keeps the buildings cool in summer and hot in winter.
- Reduction in energy cost up to 40%.

Application areas:

- Roofs.
- ACC sheets.
- Industrial or commercial structures.
- Steam pipes and fittings.
- Exterior Walls.
- Cold storage facilities.
- Air conditioning ducts.
- PVC Roof Sheets.

Directions to use:

For effective adhesion of Insulthane on concrete or other substrates, it is essential that the surface be clean, dry and devoid of any loose particles. Etching with 5% HCl. followed by rinsing with water to remove acid traces and then drying is highly recommended to ensure better bonding. The surface is scrapped and then hard wire brushed to open cracks if any.

Prime coat: Apply Aquaprime and allow to dry for 2 hours.

Crack filling: All visible cracks should be sealed properly by suitable Sealants.

Insulthane: Insulthane contains ceramic micro spheres and hence to be stirred properly to make a homogeneous liquid. Apply first coat by using brush or roller. Allow to dry for 2 - 3 hours. Apply second coat and allow to dry.

Typical physical properties:

Type	Pure polyurethane coating containing ceramic micro spheres.
Non volatile %	60%
Elongation	100 - 120%
Drying time:	
Surface dry	20 - 25 minutes
Tack free dry	2 - 3 hours
Hard dry	24 hours
Coverage	60 - 65 sq.ft./ ltr. / coat
DFT per coat	75 - 80 microns
Recommended coats	2
Application	Brush / Roller
Dilution	Water
Clean up	Water
Shelf life	1 year in the unopened container