

# INSULTEC AUSTRALIA PTY LTD

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## **PRODUCT DATA SHEET** **INSULTEC PI - FIRE RESISTANT**

### **HIGH BUILD HEAT RERADIATING AND FIRE RESISTANT ELASTOMERIC MEMBRANE**

- Outstanding heat re-radiating membrane
- Suitable for most building substrates
- Low cost / Energy efficient
- Fire Retardant

**DESCRIPTION** Insultec PI heat reradiating and fire resistant membrane is highly durable and flexible, allowing it to move with the substrate. Insultec PI fills and bridges hairline cracks. Insultec PI can be applied to a wide variety of materials such as concrete, brick, asphalt, timber, clean or primed fibro and properly primed metals. It is supplied in an off white colour with a matt finish to alleviate glare. The Insultec PI membrane treatment adds longer life to the substrates over which it is used. Its heat insulating ability is remarkable with reports, during excessive temperature periods, of interior temperatures being lowered by 15°C and more.

**COMPOSITION** Insultec PI is a water based co-polymer compound containing inert pigments and special fillers.

### **PROPERTIES**

Coverage	1 litre per 2 metre square of flat area assuming no losses.
Drying time	@ 25°C: Touch 1 hour; Recoat, 4 hours. Drying time may be longer in areas of high humidity.
Component	One component system.
Shelf life	1 year in sealed container, at 25°C.
Wet film thickness	500 microns per coat
Dry film thickness	250 microns per coat
Solids by vol%	50% +/- 1 %
No. of coats	One or Two, dependent upon application requirements.
Finish	Matt
Thinners	Water
Cleaning	Insultec PI is easily cleaned with water when wet. When dry use white spirit.
Storage	Protect from heat and frost. Ideal storage conditions are in the shade at ambient temperatures of between 10°C and 25°C.

**APPLICATION DATA** Stir thoroughly before use. Insultec PI may be applied by brush, roller or airless spray gun. Equipment may be cleaned with water and dry paint can be removed with solvents.

**PRECAUTIONS** Provide adequate ventilation during use. Spray painters should comply with health regulations. Do not use on glazed surfaces unless previously treated. Do not apply if rain is expected or the relative humidity is above 85% or within 3°C of the Dew point. Insultec PI is not suitable for areas where permanent ponding may occur.

**SURFACE PREPARATION**

Prepare surfaces as for normal painting.

**Crack in masonry:** Insultec PI can be successfully applied over cracks and small gaps by using a polyester tape pressed into a coat of wet Insultec PI and then over coated with another coat of Insultec PI.

**Fibro, Masonry:** Wire brush or scrape away surface dirt or fungus. Repair surface. Mould, fungus, mildew, algae growth should be treated with a 10% solution of Acticide fungicide. On particularly bad surfaces, it may be necessary to repeat the treatment. Do not water blast asbestos surfaces.

**Slate, Tiles:** Remove surface dirt by wire brushing or water blasting. Carry out repairs to tiles prior to application.

**Unpainted metal surfaces:** Remove any rust and abrade to bright metal or apply a Rust Converter, following the manufacturer's instructions carefully. If the metal is badly corroded, two coats of primer may be needed. Lead or soft alloys can be prepared by using a wire brush to roughen the surface before priming. This treatment is followed by the usual one or two coats of Insultec PI. Non ferrous metal can be primed with water base metal primer.

**New Metal less than 2 years old:** Acid etch, rinse thoroughly and follow the steps for unpainted surfaces as above.

**Non bleeding asphalt, Bitumen and pitch coated surfaces:** Apply a bitumen primer such as B1500X Bitumen primer and allow to dry thoroughly for 24 hours before coating with Insultec PI.

**Painted surfaces:** Gloss surfaces should be well sanded to break up the gloss. Any other painted surface should be sound and well bonded to the substrate. Apply Insultec PI to the prepared surface.

**Timber:** New unpainted timber should be primed with a wood primer. For previously painted timber, remove flaking and loose paint. Spot prime where necessary (see- painted surfaces).

### **RESISTANCE**

**Chemicals:** Standard 10% solution of acids and alkalis, including nitric acid and caustic soda failed to cause breakdown of the Insultec PI membrane. Impervious to salt spray and shows good resistance to water permeability.

**Mould and fungus:** Insultec PI exhibits extremely high resistance to mould and fungus.

**TESTING** Insultec PI samples were subjected to testing by the Experimental Physics Department of the University of New South Wales and by the CSIRO, Australia. These tests showed interior temperature reductions of up to 15°C on a 40°C day and Class 1 Fire retardant. Test results are available on request to Insulating Technology Pty Ltd. The membrane which is the vehicle for the special heat rejecting fillers has been in constant use for the past 15 years in Australia.

**DISCLAIMER** The data contained herein is based upon information which the company believed to be reliable at the time of preparation of this data sheet. No responsibility can be accepted, or any express or implied warranty given where performance of the product is affected by surface preparation, method of application or any other circumstance beyond the control of the company.

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