

# INSULTEC AUSTRALIA PTY LTD

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## PRODUCT DATA SHEET

### INSULTEC 1

- ❖ High build heat re-radiating elastomeric membrane
- ❖ Suitable for most building substrates
- ❖ Low cost / energy efficient
- ❖ Environmentally friendly product
- ❖ Safe for drinking water after 2-3 rains/wash offs.

### DESCRIPTION

Insultec 1 re-radiating membrane is highly durable and flexible, allowing it to move with the substrate. Insultec 1 fills and bridges hairline cracks. It can be applied to a wide range 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 1 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 up to 15°C and more.

### COMPOSITION

Insultec 1 is a water based co-polymer compound containing inert pigments and special fillers.

### PROPERTIES

Coverage:	1 litre per 4 square metres of flat area per coat at 500 microns assuming no losses. It is recommended to apply Insultec in 2 coats of 500 microns each coat. When the project is finished the final thickness will dry to 500 microns.
Drying time:	Touch 1 hour at 25°C. Recoat, 4 hours. Drying time may need to be increased in areas of high humidity.
Component:	One component system
Shelf life:	1 year in a sealed container, at 10°C to 25°C
Wet film thickness:	500 microns per coat
Dry film thickness:	250 microns per coat
No. of coats:	One or two, dependent upon application requirements
Finish:	Matt
Thinners:	Do not thin Insultec 1, use as is.
Cleaning:	Insultec 1 is easily cleaned with water when wet. When dry use white spirits

## PRODUCT DATA SHEET

### INSULTEC 1 (continued..)

#### 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 1 may be applied by brush, roller or airless spray gun. Equipment may be cleaned with water and dry paint can be removed with solvents. Insultec purchased in IBCs (1000 ltr) container will need to decant the product to allow for efficient stirring before use.

#### 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 1 is not suitable for areas where permanent ponding may occur.

#### SURFACE PREPARATION

Prepare surfaces as for normal painting.

**Cracks in masonry:** Insultec 1 can be successfully applied over cracks and small gaps by using polyester tape into a coat of wet Insultec 1 and then over coating it with another coat of Insultec 1.

**Fibro, masonry:** Wire brush or scrape away surface dirt or fungus. Repair surface. Mould, fungus, mildew or 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.** If using wire brush, keep surface wet whilst brushing. For cracks in asbestos, prime, then use a light coat of Insultec and whilst the Insultec is wet cover across crack with fibreglass emulsion mat or polyester tape then apply Insultec as required.

**Slate tiles:** Remove surface dirt by wire brushing and 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. 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 before for 24 hours before coating with Insultec 1.

**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 1 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")

**PRODUCT DATA SHEET** (continued..)  
**INSULTEC 1**

**RESISTANCE**

**Chemicals:** Standard 10% solution of acids and alkalis, including nitric acid and caustic soda failed to cause breakdown of the Insultec 1 membrane. It is impervious to salt spray and shows good resistance to water permeability.

**Mould and fungus:** Insultec 1 samples were subjected to testing by the Experimental Physics Department of Main Roads, South Australia. These tests showed temperature reductions of up to 15°C. Test results are available on request to Insultec Australia Pty. Ltd. The membrane which is the vehicle for the special heat rejecting fillers, has been in constant use for more than 25 years.

**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 implied warranty given where performance of the product is affected by surface preparation, method of application or any other circumstance beyond the control of this company.

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