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GUARANTEED QUALITY
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PRODUCT BULLETIN SC.504

THERMAL-COAT - 0028

HIGH BUILD RE-RADIATING ELASTOMERIC MEMBRANE

- Outstanding heat re-radiating elastomeric membrane.
- Suitable for most building substrates.
- Low cost / energy efficient.

DESCRIPTION: THERMAL-COAT heat re-radiating membrane is highly durable and flexible, allowing it to move with the substrate. THERMAL-COAT fills and bridges hairline cracks. THERMAL-COAT 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 THERMAL-COAT membrane treatment adds longer life to the substrates over which it is used. It's heat insulating ability is remarkable with reports, during excessive temperature periods, of interior temperatures being lowered by 15 degrees C and more.

COMPOSITION: THERMAL-COAT is a water based co-polymer compound containing inert pigments and special fillers.

PROPERTIES:

Coverage;	1 litre per 2 square metres of flat area assuming no losses
Drying Time;	@ 25 degrees C; Touch 1 hour; Recoat 4 hours.
Component;	One component system.
Shelf Life;	1 year in sealed container.
Film Thickness;	Wet 450 microns per coat.
	Dry 272 microns per coat.
Solids by vol.%	60% +/-1
No. of coats;	One, dependant upon application.
Finish;	Matt.
Cleaning;	THERMAL-COAT is easily cleaned with water when wet.
	When dry use white spirits.

STORAGE: Protect from heat and frost. Ideal storage conditions are in the shade at ambient temperatures of between 5 degrees C and 25 degrees C.

APPLICATION DATA: Stir thoroughly before use. THERMAL-COAT may be applied by brush, roller or airless spray. The equipment may be cleaned with water; dry paint can be removed with solvents.

PRECAUTIONS: Provide adequate ventilation during use. Spray painters should comply with all current health regulations. Do not use on glazed surfaces unless previously treated. Do no apply if rain is expected or the relative humidity is above 85%, or within 3 degrees C of the due point. THERMAL-COAT is not suitable for areas where permanent ponding occurs but is suitable for the collection of drinking water.

SURFACE PREPARATION: Prepare the surfaces as for normal painting.

Cracks in masonry: THERMAL-COAT can be successfully applied over cracks and small gaps by using a polyester tape pressed into a coat of wet THERMAL-COAT, then over coated with another coat of THERMAL-COAT.

Fibro, Masonry: Wire brush or scrape away surface dirt or fungus. Repair any areas. Mould, fungus, mildew and 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 the surface dirt by wire brushing or water blasting. Carry out any repairs to the tiles prior to the application of THERMAL-COAT.

Unpainted Metal Surfaces: Remove any rust back to bright metal. Apply one full coat of TOPDEK Red Oxide or Grey Zinc Phosphate Primer and allow to dry. Two coats of primer may be needed if the metal has been badly corroded. Soft alloys, such as lead, can be prepared by using a wire brush to roughen the surface before priming. The procedure then is to apply one or two coats of THERMAL-COAT as required. Prime non-ferrous metals with TOPDEK Galv-Iron Primer.

New Metal that is less than two years old: Acid etch then rinse thoroughly and follow the procedure for the unpainted surfaces above.

Painted Surfaces: All gloss surfaces should be sanded to provide a key for the new paint. Ensure that the existing paint is sound and not flaking, remove if necessary, before the application of THERMAL-COAT.

Timber: All new unpainted timber should be primed with TOPDEK Pink Primer. With previously painted timber, remove all flaking and loose paint. Spot prime where necessary, continue as for painted surfaces.

Non bleeding Asphalt, Bitumen and Pitch Surfaces: Apply a bitumen primer e.g. B1500 x Bitumen Primer, and allow to dry thoroughly for 24 hours, then coat with THERMAL-COAT.

RESISTANCE: Standard 10% solutions of acids and alkalis, including nitric acid and caustic soda, failed to cause a breakdown of the THERMAL-COAT membrane. Impervious to salt spray and shows good resistance to water permeability.

TESTING: Samples of THERMAL-COAT were subjected to testing by the Experimental Physics Department of the University of New South Wales and the Department of Main Roads of South Australia. These tests have showed interior temperature reductions of up to 15 degrees C on a day when the temperature reached 40 degrees C. The membrane which is the vehicle for the special heat rejecting fillers has been in constant use for the past 15 years here in Australia