

# TEMPERATURE INSULATING EMULSION

Product No. **PW3303**

**Ritver Temperature Insulating Emulsion** is a unique single component water-based heat insulation coating specially designed for the building and architectural industry. Applicable to both external and internal surfaces, the product effectively prevents the passage of heat. When applied outside, the product prevents infusion of heat and when applied inside, it prevents the cold temperature from escaping which in turn helps in reducing the energy consumption of air conditioning. The product can be top coated with any water-based finish coat for added aesthetics and protection.

## USE

**Substrates:** Concrete, Metal, Wood

**Area of Use:** Exterior & Interior

## SPECIFICATION

### Properties

<b>Finish</b>	: Matt and Satin
<b>Colour</b>	: White and Pastels
<b>Specific gravity</b>	: 0.83 ± 0.02
<b>Solids (% by vol.)</b>	: 60 ± 2%
<b>Diluent</b>	: Water
<b>Flash point</b>	: N/A
<b>Spread Rate</b>	: 6 sq.m./liter
<b>Recommended DFT</b>	: 600 microns
<b>Drying Time, 30° C @ 50%RH</b>	
<b>Touch Dry</b>	: 2 hours
<b>Dry to Recoat</b>	: 4 hours
<b>Hard Dry</b>	: 6 hours

## SURFACE PREPARATION

### Concrete

Always ensure that the surface to be painted must be free of dirt oil and grease. New concrete should be cured for at least 28 days before application. Old surfaces must be free of laitance spalling and powdering.

### Metal

Bare metal should be cleaned according to SSPC SP2 (Handtool Cleaning) or SSPC SP3 (Power Tool Cleaning) and primed with a suitable primer. Ensure primer is fully cured before application of **Temperature Insulating Emulsion**.

For painted surfaces, ensure that the paint are not flaking and or peeling. Remove any surface contaminants like dust, oils, grease. Sand the surface with a 220 to 320 grit sandpaper before applying **Temperature Insulating Emulsion**.

### Wood

If applying over coated wood, ensure that the coating is compatible with an Acrylic based emulsion coating. Bare wood should be primed with a suitable Primer before application of **Temperature Insulating Emulsion**.

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate and application, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RITVER Technical Service Department.

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## APPLICATION METHODS

The recommended method of application is by Airless Spray or HVLP sprayer. Roller and Brush can also be used in small areas.

**Application:**  
**Airless Spray**

Depending on the area to be covered, select the most suitable fan type, normally 4 to 8 inches and a nozzle orifice of 0.025 to 0.030 of an inch. Do not apply more than 100 DFT at a time or the product will sag and crack. Wait until the first coat is dried before commencing with the next coat. Build the dry film thickness to 100 microns minimum by applying multiple coats.

**Roller/Brush**

Apply the product using a fine haired paint roller or brush, the one usually used for Emulsion Paints. Apply multiple coats to build the recommended DFT.

## STORAGE & SHELF LIFE

Under dry and cool condition, storage stability can be sound up to 18 months in original sealed containers.

**HANDLING**

**Disposal:** As per the guidance and legislations of the local Authority e.g., by controlled landfill. In case of doubt, consult local authority. Do not empty into drains, sewers or other water courses.

**Flash Point:** Not applicable.

## SAFETY PRECAUTION

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream. Other industrial practices are applicable. Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray. MSDS is available on request for the safe handling of this product.

**FIRST AID**

**Eyes:** In the event of accidental splashes, flush eyes with warm water immediately and obtain medical advice.

**Skin:** Wash skin thoroughly with soap and water or approved Industrial cleaner. DO NOT USE solvent or thinners.

**Inhalation:** Remove to fresh air, loosen collar and keep patient rested.

**Ingestion :** In case of accidental ingestion DO NOT INDUCE VOMITING. Obtain immediate medical attention.