

ELASTOTHANE

construction products

U.V. STABLE WATER BASED P.U COATING



ELASTOTHANE is a high performance single component U.V. stable water based elastomeric aliphatic polyurethane coating for long term protection for various surfaces.

ELASTOTHANE is a complex blend based on flexible urethane polymers, which produces systems with outstanding waterproofing and weatherproofing properties. It has excellent impact and chemical resistance coupled with high degree of flexibility and is micro-porous allowing the substrate to breathe.

ELASTOTHANE performs dual function of waterproofing and decorating masonry surfaces subject to extremes of moisture and temperature levels.

ELASTOTHANE coatings has the ability to bridge cracks and gaps up to 1.5 mm and fill in other surface imperfections to provide a smoother finish.

ELASTOTHANE is especially formulated for use in high temperature, high humidity coastal areas. It has excellent dirt pick up resistance, unlike acrylic elastomeric coatings, which tend to develop tack at moderate temperatures.

ELASTOTHANE has excellent adhesion and durability for various surfaces like concrete, asphalt, bitumen, mineral felt, asbestos, aluminium and most metal surfaces.

ELASTOTHANE provides a barrier to carbonation and seals out moisture, yet enabling the substrate to breathe.

ELASTOTHANE protects old and new concrete and masonry structures from water, carbon dioxide, sulphur dioxide, oxides of nitrogen, chlorides and sulphates.

ELASTOTHANE is suitable for use inside potable water tanks as it meets the standards laid down by World Health Organisation.

Uses and Application areas

- Exterior protective and decorative coatings for buildings.
- Exterior waterproof coatings for roofs.
- Masonry renovations.
- Concrete surface waterproofing both horizontal and vertical.
- Suitable as a final protective coating for building façade refurbishment.
- Specially suited for buildings along the coastal areas.
- Suitable for use inside potable water tanks.

Features and Benefits

- Excellent adhesion, abrasion and impact resistance.
- Elastic nature with crack-bridging properties.
- Excellent weathering resistance and durability.
- Carbonation barrier.
- Outstanding water and alkali resistance.
- Resistant to a wide range of chemicals.
- Suitable for use on bituminous, cementitious and resinous substrates alike.



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U.V. STABLE WATER BASED P.U COATING

- Flexible and U.V. stable coatings.
- Micro-porous and breathable coatings.
- Hygienic, Non-toxic, Non-flammable and Eco-friendly.
- Waterproof and seamless coatings.
- Single pack and easy to apply.
- Available in a range of colours.

Typical Properties

Appearance	: Semi-viscous paint like consistency
Impact Resistance	: No Failure (BS 2782)
Elongation	: 200% (Approx.) (ASTM D412)
Tensile Strength	: 3 N/mm ² (Approx.) (ASTM D412)
Humidity Resistance	: Unaffected 6000 hrs exposure
Water-vapor Transmission	: Does not create a vapor retarder
Touch Dry	: Approx. 1 hour. However, the actual drying time depends on the prevailing climatic conditions.
Finish	: Semi Gloss
Colours	: White, Light-Grey, Cream (Other Colours on request)

Application Procedure

Surface Preparation

Substrate shall be clean, sound and free from contaminants such as oil, grease, moss, algae, dust and any existing loose gravel or flaking paintwork.

Concrete surfaces should be fully cured and free from

laitance, mould release oils and curing compounds.

High pressure water jetting may be deemed necessary for heavily contaminated surfaces for a good bond with the sub-floor. Prior to application, large blisters and surface breaks shall be slit and opened for the release of entrapped moisture then sealed properly wherever necessary.



Priming

Usually, priming is not required. However, for highly absorbent / dusty areas, priming is recommended. Priming may be carried out by diluting ELASTOTHANE with water in the ratio 1:1.

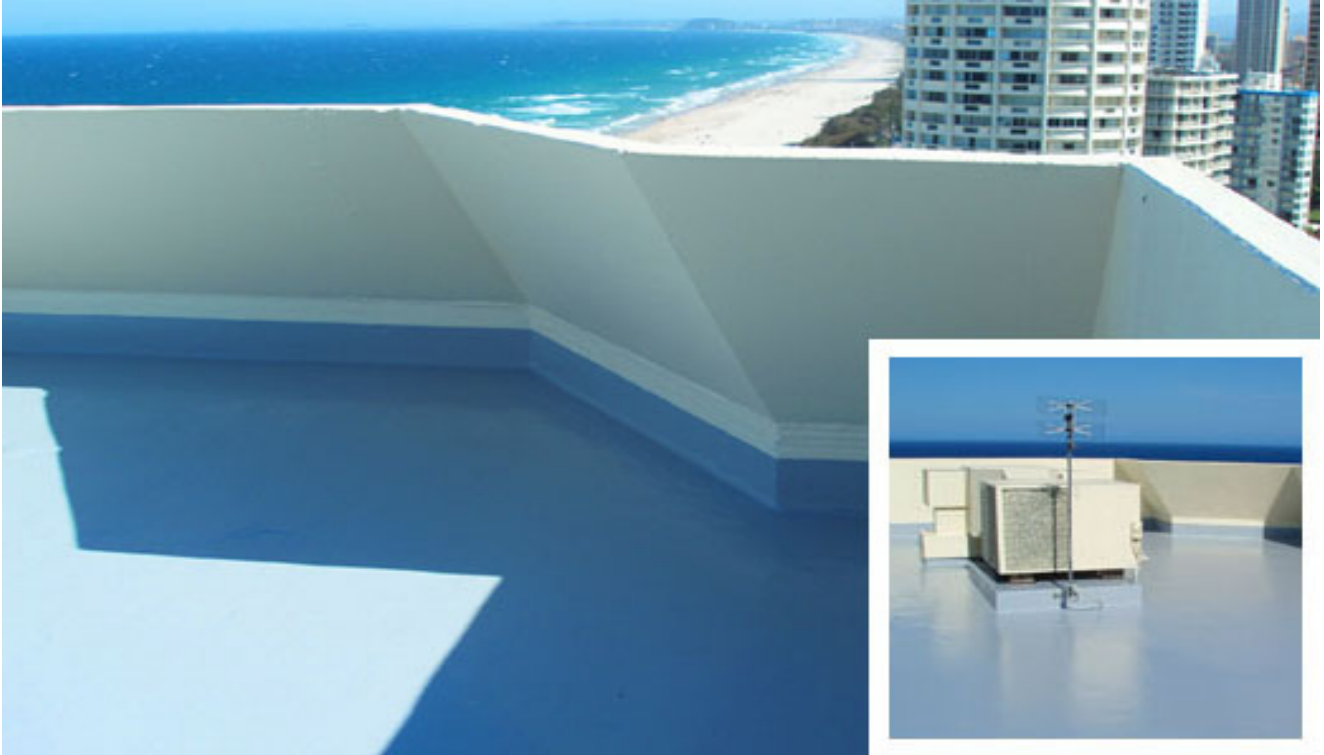
Application

Apply ELASTOTHANE coating by brush, roller or airless spray. The rate of application will depend on the substrate where the product is to be applied. For

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normal areas, apply ELASTOTHANE at a rate of 4 – 5 m²/litre/Coat - 2 coats recommended. For areas, which may be submerged, apply ELASTOTHANE at the rate of 2 – 3 m²/litre/Coat – 2 coats recommended. It is extremely important that the previous coat is completely dry before application of the next coat depending on the weather conditions. For weak areas, e.g. around the pipes and over cracks, it is recommended to re-enforce the area by spreading a FIBRE-GLASS MAT after the first coat, then followed by the second coat. In such areas, a third coat may be required.

Drying/Curing

ELASTOTHANE will be touch dry within 1 hour (Approx.). However, the area can be walked over

only after the area is thorough dry which may take between 3 – 10 hours depending on the substrate and climatic conditions.

Equipment Cleaning

Clean all equipments immediately after use with water.

Packing

20 Kg Pail.

Storage and Shelf Life

Store in dry conditions out of direct sunlight. Protect from frost. ELASTOTHANE has a minimum shelf life of 12 months when stored in original, unopened containers.



Machinery & Allied Products Ltd

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Technical Services

Technical assistance and information is available by calling Falcon Chemicals (L.L.C.) on specific application.

Health and Safety

Avoid contact with skin and eyes. In case of accidental contact with eyes, wash with plenty of water and seek medical treatment.

Disclaimer

This leaflet is a guide for the use of the product concerned. The information given is in accordance with latest technical developments. However, we do not accept liability/ responsibility for any work carried out with our materials, as we have no control over the method of application used or the condition of site involved.

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This technical specification supercedes all previous data sheets.



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