



# WALLFLEX HYTHERM

## THERMAL INSULATION COATING

### KEY FEATURES

- Eco-friendly (saves air conditioner energy).
- Reduces the extremes of temperature inside buildings where air conditioning is not available.
- Beauty and waterproof all in one and remains elastomeric to cover hairline cracks.
- Very good resistance to UV, dirt pick-up and mould growth.

### DESCRIPTION

Wallflex Hytherm is a water based, elastomeric membrane coating that is specifically designed to provide thermal insulation properties. It has a slight satin lustre for an exceptionally durable waterproof yet breathable coating that is highly decorative and allows for some building movement without cracking. Wallflex Hytherm can be tinted to a wide range of colours.

Wallflex Hytherm is formulated with a special vehicle and pigmentation that provides exceptional durability, adhesion and water impermeability under extremes of climatic conditions and atmospheric pollution.

Wallflex Hytherm can significantly reduce internal temperatures due to its thermal insulation properties and its reflectivity (using light colours). The unique thermal insulation properties come from the use of specific grades of vitreous and ceramic spheres (the same technique as used on the re-entry heat shields of space craft). These spheres are hollow and possess extremely low heat conductivity while exhibiting high compressive strength.

### RECOMMENDED USES

Wallflex Hytherm is suitable for all vertical and sloping surfaces where water ponding will not occur.

For use on cement render, concrete, masonry walls, fibre cement, prepared AAC, galvanised iron and pre-primed steel surfaces. Wallflex Hytherm actively inhibits mould and mildew growth.

### SUBSTRATE PREPARATION

All substrates shall be sound, clean and free of dust,

### PERFORMANCE PROPERTIES

Form	Creamy Liquid
Colour	White, Grey
Tensile Strength	1.56N/mm <sup>2</sup> - AS1145
Dirt Pick up Resistance	Wallflex Hytherm is formulated specifically to resist initial soiling, providing excellent cleaning properties through a low sheen finish.  1 year exterior exposure. Result : Very Good
Flexibility	7 days air cure then, a. 3000 hours weatherometer, b. One year exterior exposure.  Result : No Cracks on both a. and b.
Accelerated Weathering	QUV exposure (ASTM-G-53)  Result : Excellent appearance with no film failure.
Ultraviolet Resistance	Atlas Carbon Arc Fade O Meter 3000 hours exposure.  Result : Very Good
Mould & Mildew Resistance	Typically 2-5 years in non-tropical climates.  Result : Actively inhibits mould or mildew growth.
Solid Content	By Volume, 64% By Weight, 60%
Minimum Film Thickness	250µm dry film thickness to achieve effective insulation.

oil or other contamination prior to priming. To ensure adhesion to previously coated surfaces, these surfaces must be water blasted to remove all dirt, degraded paint and 'Chalking' prior to application of the appropriate primer and Wallflex Hytherm.

## APPLICATION INSTRUCTION

### PRIMING

Off form concrete or porous substrate, use Decoseal Primer.

Fibre cement cladding, cement render & bagging, concrete masonry and AAC blocks & panels, use Decoseal Primer.

Steel / Galvanised iron (sound and clean or sound with tightly bound corrosion), use Rustlac Primer.

### PLACING

Stir product to an even smooth consistency before use.

Wallflex Hytherm may be applied by airless spray, brush or roller. Medium nap roller gives a subtle textured surface. The use of other texture rollers will provide a variety of finishes.

Wallflex Hytherm must only be applied at temperatures of 10°C to 30°C. Application in extreme heat or windy conditions especially on large areas should be avoided. Always aim work in shaded areas leading or following the sun around the project.

When inclement weather is imminent / forecast, application should cease to allow at least 30 minutes drying time to assist rain resistance (longer time is required during cold or high humidity conditions).

### RECOMMENDED COVERAGE

For normal aesthetics, general waterproofing and hairline crack bridging (<0.3mm) on smooth surface, Wallflex Hytherm can be applied at a minimum rate of 2 layers with coverage 4m<sup>2</sup>/litre per layer. Dry film thickness of 2 layers shall be minimum 250 microns.

Note : For the whole system required, layer or number of coating is only for reference, and subject to substrate condition. Therefore to achieve accuracy and reliable results, it should follow the consumption usage as per recommendation.

### DRYING TIMES

Wallflex Hytherm is normally tack free in 15-20 minutes and dry for recoating in 3 hours at 25°C and 50% to 60% relative humidity at a spreading rate of 4m<sup>2</sup> per

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litre. When cold and/or high humidity conditions exist, extra time for both the drying and recoating should be allowed. In windy or direct sun conditions, ensure the film is 'through dry' and not just 'skinned over' prior to recoating.

### PRECAUTIONS

Stir thoroughly and confirm colour suitability (coat sample and let dry) before use.

As with all tinted material, it is best practice to mix several pails together to avoid possible colour variation.

Where different batches of the same colour are used and it is not practical to mix the pails together, it is best practice to join the different batches on the wall at a natural break or corner.

Do not apply below 10°C or above 30°C. Avoid working in full sun or in windy conditions.

If rain is expected during application, stop coating prior to rain in time to allow adequate curing of the coating.

Use only on vertical or sloping surfaces where water ponding will not occur.

For horizontal surfaces and where ponded water is possible, use Dynaflex HVS.

As with all coatings, always apply with adequate ventilation.

### PACKAGING

20 litres plastic pail

200kg drum

### CLEAN UP

Clean all equipment with warm soapy water soon after application while material is still wet. Dry material can be cleaned off with XS Solvent.

### STORAGE AND SHELF LIFE

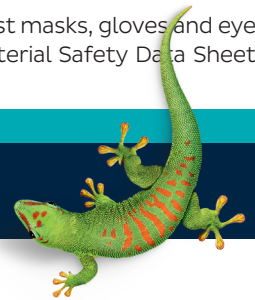
Store product in a cool, dry place out of direct sunlight in tightly sealed containers. Protect from freezing. Wallflex Hytherm has a shelf life of 12 months in original sealed and unopened container if store in recommended condition.

### HEALTH AND SAFETY

Suitable protection clothing, dust masks, gloves and eye protection should be worn. Material Safety Data Sheet available on request.

#### BOSTIK HOTLINE

**Smart help**  
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