

# EESyTough™

## TECHNICAL DATA

### PRODUCT TYPE

A medium build pre-blended, polymer modified cement skim coat.

### DESCRIPTION

Key: EIFS= Exterior Insulating Finishing System

EESyTough™ is a polymer and silicate modified, mineral based, skim coat. The product is used as the final leveling coat over EcoEnergy® Lightweight Building Panels after their on site installation in wall and fencing systems.

The product is supplied in a 20 kg paper sack. On site mixing requires only the addition of fresh clean water to achieve a smooth workable paste at a desired consistency. No additional polymer additives are required and should not be added.

The product is a pre-blended powder mix that contains premium grade crushed marble, Type HE Portland Cement, conforming to Australian Standard 3972 and proprietary silicate and adhesion promoting additives that provide an exact performance profile suited to its intended use.

The product is modified with very high levels of flexible polymers and hydrophobic agents that ensure a well adhered render with excellent resistance to water, efflorescence or rising damp.

The cured product is hard, yet **very flexible and waterproof** and provides greater adhesion to EcoEnergy® Lightweight Building Panels than the cohesive strength of the foam itself.

EESyTough™ is designed for overcoating with acrylic textures and coatings to provide strong inter-coat adhesion.

### PROPERTIES

The exact composition of the product's aggregate shape, size and proprietary additives provides unique and technically correct properties for the applicator and EcoEnergy® Lightweight Building Panels.

The product is smooth and buttery to apply with very low trowel stick. The product levels exceptionally well straight-off stainless steel trowel and leaves minimal marks.

The product offers good workability, high slump resistance and provides long open time for the applicator to complete the entire leveling process with ease.

As the final skim coat, the product chemically bonds to EcoEnergy® Lightweight Building Panels with tenacious adhesion. The product is very flexible, waterproof and remains unaffected over long periods of time by building movement, water, efflorescence or rising damp.

As testimony to the adhesion of EESyTough. All adhesion tests done to ASTM D-4541 proved that only co-cohesive substrate failure could be achieved

Unlike normal render, the product can be applied in very thin sections as low as 1.0 mm, without any threat of crumbling and lack of adhesion at a thin feathered edge.

## TIME AND COST SAVING

EESyTough is very quick to apply and leaves minimal trowel marks during application. It is very economical to use and requires less clean up than a standard cement render and offers greatly reduced curing time before the application of a texture finish. Under normal conditions, the application of a texture coating may be commenced one day after its application.

## KEY PROPERTIES

- Extremely flexible
- Long open time for good workability.
- Highly water resistant.
- Minimal drying shrinkage.
- Very strong bond to EcoEnergy® Lightweight Building Panels.
- Environmentally friendly
- Rapid cure.
- Excellent resistance to alkali and efflorescence.

## SUBSTRATES

- EcoEnergy® Lightweight Building Panels.

## SURFACE PREPARATION

1. All surfaces must be structurally sound, clean, and free from surface contaminants such as, dirt, dust, oils, grease, silicones and release agents.

***If unsure, contact SA Ceiling & Wall Systems for the correct preparation technique, sealers, primers and undercoats before proceeding.***

## MIXING:

The powder is added to the gauging water whilst being stirred vigorously with a mechanical stirrer until a trowelable consistency is reached, usually 30 seconds to one minute. The mix is left to stand approximately 5 minutes before adjusting the consistency with additional water if required. Care must be taken not to mix excessive air into the mix.

## APPLICATION TECHNIQUES

### Skim Coat

1. Apply the product with using a hawk and stainless steel trowel at a 1 to 1.5mm. thickness. The application should occur in two passes, a tight first pass followed by a second leveling pass.
2. Allow the product to stand for a short period, allowing for surface moisture to stabilize then any remaining ridges can be smoothed out with a clean moist stainless steel trowel.

Always terminate the application above a damp course line. Never bridge a damp course.

## PRECAUTIONS FOR USE

Avoid contact with skin and eyes; always use a dust mask during mixing.

## PRODUCT DATA

Pack Size	20kg Paper Sack
Mix activation water.	<b>3.0 to 3.4 liters per bag.</b>
Drying Time at 25°C @ (55% Relative Humidity)	6 hours, (Dry times will vary with changes with temperature, humidity and residual moisture).
Recommended thinners	Water
Wash up	Water
Recoat time at 25°C	2 to 4 hrs
Minimum application temperature	5° C
Finish colour	Greenish grey
Durability	Exterior/Interior (must be top-coated)
Curing	Not required

## COVERAGE

Calculation =1.65kg m2 per 1mm thickness

COATING THICKNESS	m2 /20kg bag	kg/m2
Theoretical spread rate @ 1.0mm	12.12	1.65
Theoretical spread rate @ 1.5mm	8.10	2.47

## LIMITATIONS

- Should not be applied over cement sheet or previously painted surfaces without the correct sealers
- Should not be applied in temperatures below 3 degrees C or in very hot and windy conditions or above 30 degrees C
- Protect from freezing temperatures for 24 hours after application
- Protect from heavy rain for 8 hours after application.

## WARRANTY

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