

**EIFS IMPACT RENDER****[Technical Bulletin]****PRODUCT TYPE:**

A pre-blended, polymer modified, cement impact coat for polystyrene foam.

DESCRIPTION:

Key: EIFS= Exterior Insulating Finishing System.

EIFS Impact, is a polymer and silicate modified, mineral based, trowel-on skim coat specifically designed for application to polystyrene foam panel.

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

EIFS Impact is trowel applied to the face of foam panel in a thin section of 1 to 1.5mm in combination with fibre reinforcing sheet.

The cured film creates a tough impact resilient surface to the normally soft foam, making the foam suitable for use as a light weight panel for the construction of exterior walls and fencing.

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 it's intended use.

PROPERTIES:

The exact composition of the product's aggregate shape, size and proprietary additives provides unique and technically correct application properties for the applicator and system.

EIFS Impact is designed to sag –flow. Upon application with a stainless steel trowel, the product flows and creeps in and around the fibre reinforcing then settles to a smooth and well packed film.

The product is modified with very high levels of highly flexible polymers, proprietary silicates, adhesion promoters and hydrophobic agents that

ensure a well adhered render with excellent resistance to water, efflorescence or rising damp.

Most importantly, the product chemically bonds to the foam surface with tenacious adhesion, even where the foam is highly sintered.

EIFS Impact is a hard and impact resistant, yet very flexible film that is unaffected by wet, damp conditions providing a strong reliable base for texture coating systems.

As testimony to the adhesion of EIFS Impact , all adhesion tests done to ASTM D-4541 proved that only co-cohesive substrate failure could be achieved.

CRITICAL PERFORMANCE ISSUE

Unlike many of the commercially available base coats for foam panel, the adhesion of Astec EIFS Impact conforms to overseas standards. Mandatory on-site "pull off" tests for adhesion are conducted at specified tests per m² across each and every project before any further decorative system can be installed.

TOP-COATING

EIFS Impact is designed for over-coating with Astec EIFS A.J.S (Adhesive-jointing- fine skim), or EIFS medium or coarse flexible skims to level out any surface misalignment created by panel jointing or installation technique. Under normal conditions, the application of skim and jointing coats may be commenced one day after it's application.

KEY PROPERTIES

- Imparts high impact resistance to foam.
- Provides tenacious adhesion to foam.
- Very flexible even at -8 deg C.
- Highly water resistant.
- Environmentally friendly
- Rapid cure and bond strength.

SUBSTRATES:

- Polystyrene foam
- Cast foam.

SURFACE PREPARATION;

1. The foam surface must be clean, completely dry and free from surface contaminants such as, dirt, foam dust, oils and or grease.
2. Any deep chips or missing corner sections in the panel should first be pre-filled and struck smooth with Astec EIFS-A.J.S.

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 air entrain the mix as excessive air can weaken the final applied film.

APPLICATION TECHNIQUES

Horizontal

1. Using nails, hold the reinforcing mesh onto the sheet ends so that it is stretched flat without wrinkles on the large surface of the foam. .
2. Pour 3.4 kg of wet mix onto the pre-meshed panel and spread with a stainless steel trowel or hard rubber squeegee. Spread the mix so as to ensure complete cover of the mesh then remove any excess material back to the depth of the reinforcing with a long firm pass. Do not spent too much time trying to remove all

3. trowel marks as they will suitably level out upon standing.
4. Remove any overhang of material after initial set of 30mins to 1 hr. Do not leave any material overhang to cure as it will be difficult to remove when dry.

Vertical

1. Using nails, or a small amount of EIFS Impact, hang the reinforcing mesh from the top of the panel allowing it to curtain to the panel base.
2. Use a hawk and stainless steel trowel to apply the product over the mesh in tight passes.
3. Spread the mix so as to ensure complete cover of the mesh then remove any excess material back to the depth of the reinforcing with long firm passed. Do not spend too much time trying to remove all trowel marks as they will suitably level out upon standing.
4. Remove any overhang of material after initial set of 30mins to 1 hr. Do not leave any material overhang to cure as it will be difficult to remove when dry.
5. 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.	4.0 to 4.4 liters per bag.
Drying Time at 25 °C @ (55% Relative Humidity)	6 hours, (Dry times will vary with changes in temperature and humidity).
Recommended thinners	Water
Wash up	Water
Initial set time at 25 °C	30min to 1 hrs
Minimum application temperature	5 °C
Finish colour	Light grey
Durability	Exterior/Interior (must be top-coated)
Curing	Not required

COVERAGE

Coverage can change with application technique and depth of reinforcing mesh used.

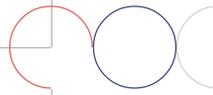
COATING THICKNESS	m² /20kg bag	kg/m²
Theoretical spread rate @ 1.5mm	16.67	1.2

LIMITATIONS

- Should not be applied in temperatures below 3°C or in very hot and windy conditions or above 30°C.
- Protect from freezing temperatures for 24 hours after application.
- Protect from heavy rain for 8 hours after application.

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