

**[Technical Bulletin]****PRODUCT TYPE:**

A pre-blended, polymer modified, cement based compound for polystyrene foam.

DESCRIPTION:

Key: EIFS= Exterior Insulating Finishing System.

EIFS A.J.S, is a polymer and silicate modified, mineral based, adhesive, jointing compound and/ or skim coat. The product is specifically designed for use during the on site installation and finishing of polystyrene wall and fencing panels.

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, high slump paste. No additional polymer additives are required and should not be added.

The cured product is hard, yet very flexible and waterproof and provides greater adhesion to the foam than the cohesive strength of the foam itself.

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 properties and application properties for the applicator and EIFS system.

EIFS A.J.S is designed to have very high wet adhesion to hold foam panels vertically in place prior to any mechanical fixing.

The product is modified with very high levels of highly flexible polymers, proprietary silicates, adhesion promoters and hydrophobic agents that ensure a well adhered EIFS System. The product ensures that the entire system remains unaffected over long periods of time by minor building movement, 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. It is very flexible, waterproof and can feathered to 0.35mm without effect on edge adhesion.

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 A.J.S. is designed and compatible with all Astec Armatex acrylic textures and exterior wall finishes. Application of an Armatex acrylic texture will provide a decorative mineral appearance to the entire project. Under normal conditions, the application of the texture coats may be commenced one day after it's application.

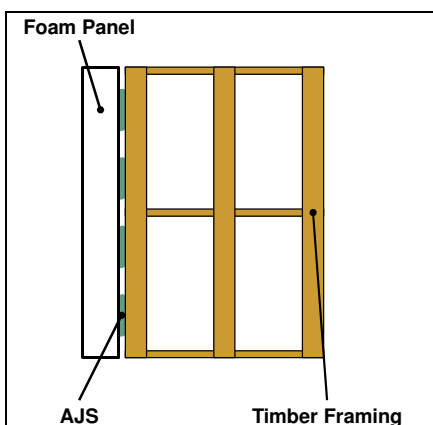
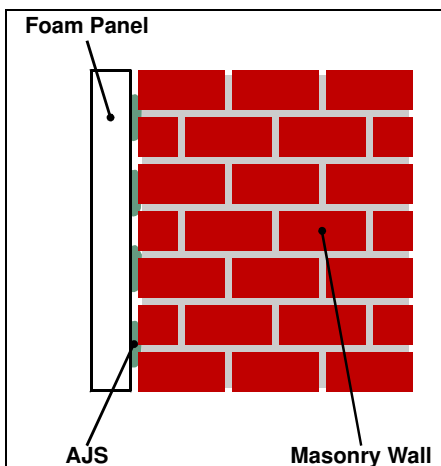
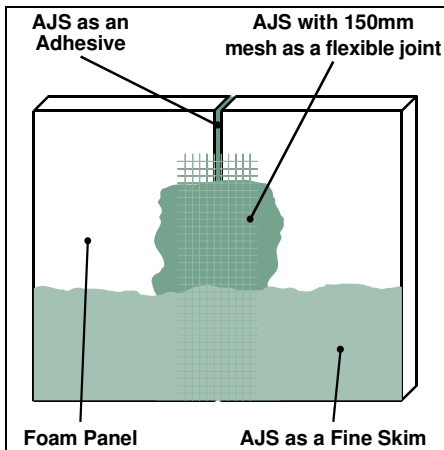
KEY PROPERTIES

- High wet hold and resistance to slump.
- Provides tenacious adhesion to foam.
- Very flexible even at -8 deg C.
- Highly water resistant.
- Environmentally friendly
- Rapid cure and bond strength.

EIFS A.J.S. IS USED FOR THE FOLLOWING:

1. As a stud adhesive between the back side of the foam panel and framing studs or masonry walls prior to any mechanical fixing.
2. As an adhesive jointing mortar between all panel edge joints.
3. As an adhesive to hold in place corner and edge reinforcing angles.

4. As a flexible jointing mortar in combination with 150mm reinforcing mesh for the exposed face panel joints.
5. As a flexible and watertight skim coat over the entire surface to level any surface misalignments.



SUBSTRATES:

- EIFS Impact coated foam panels
- 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. The masonry wall and/or framing studs surface must be clean, completely dry and free from surface contaminants such as, dirt, foam dust, oils and or grease. Masonry surfaces must be in sound nonfriable condition. Painted surfaces must be well adhered.

MIXING:

The powder is added to the gauging water whilst being stirred vigorously with a mechanical stirrer until a thick paste 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:

Framing Studs:

1. Apply with a spatula to studs at 300mm intervals.

Masonry Walls:

1. Apply with a spatula to the masonry wall at 1 in 400mm square intervals.

Panel Edges:

1. Apply with a hawk and trowel or spatula to the entire panel edge, enough material so as to completely fill the joints when pressed together. Remove any excess while wet.

Face Jointing:

1. Using a nail, or a small amount of EIFS A.J.S., hang the 150mm 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 150 mm wide mesh in a tight pass working the material into the mesh and 50mm either side of the mesh.
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 a long firm pass.

Corner Angles:

1. Using a small spatula apply thick portions of A.J.S. across the corner edge at 100mm intervals.
2. Set the corner angle into the mix and work into place.
3. Insert nails through the angles to further assist their hold until the product has cured.
4. Remove nail once the product has cured.
5. Feather the excess material that has squeezed through the perforated holes across the length of the angle to a height lower than the angle's corner height.

Skim Coat

1. To apply the product as a skim coat, (1 or 2mm), use a hawk and stainless steel trowel. 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.
3. Never bridge a damp course.

PRECAUTIONS FOR USE:

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

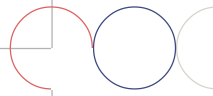
| PRODUCT DATA; | |
|---|--|
| Pack Size | 20kg Paper Sack |
| Mix activation water. | 3.6 to 4.0 liters per bag. |
| Drying Time at 25°C @ (55% Relative Humidity) | 6 hours, (Dry times will vary with changes in temperature and humidity). |
| Recommended thinners | Water |
| Wash up | Water |
| Initial 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 |

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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