[Technical Bulletin] EZY-FLOAT Concrete Block Render (C.B.R.)

PRODUCT TYPE;
A pre-blended, polymer modified cement render.

DESCRIPTION;
Ezy-Float C.B.R is a polymer modified, mineral based, trowel-on render that was developed to provide an acrylic render with application properties similar to that of a traditional sand cement render.

C.B.R is easily to apply and simple to float finished with a high density blue polystyrene foam float producing a flat and uniform rendered appearance that it easy for the applicator to achieve.

The product is supplied in a 20 kg paper sack. On site mixing requires only the addition of fresh clean water to 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 additives that provide an exact viscosity profile suited to it's intended use.

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

C.B.R is designed for over-coating with acrylic textures and coatings while in combination providing strong intercoat adhesion.

C.B.R bonds to most mineral and new construction surfaces and exhibits minimal to no drying shrinkage.

PROPERTIES;
The exact composition of the products aggregate shape, size and proprietary additives provides unique application properties for the applicator.

The product is tight to apply but results in a wet render that can be floated with a high density blue polystyrene foam float within minutes of it's wet application.

The product was developed to provide a render with the benefits of acrylic technology that could be used in both thin and thick section.

The product can be used in thick layers as a render up to 15mm. Alternatively, the product can be applied in one tight uniform thin section as a skim coat down to 3 mm with the confidence of no edge lifting.

The product has very low trowel stick, good workability, high slump resistance and provides long open time for the applicator to complete the entire leveling or floating process with ease.

Results have proven that even novice applicators using this render are able to achieve a uniform and level wall with very low waste.

TIME AND COST SAVING
Ezy-Float C.B.R is quicker and requires less effort to apply than standard cement render. It requires less clean up and offers greatly reduced curing time before the application of a texture finish. Under normal conditions, the application of a texture or coating may be commenced one day after its application.

KEY PROPERTIES

- Very strong wet adhesion.
- Long open time for good workability.
- Floats well.
- Minimal to no drying shrinkage.
- Flat uniform appearance.
- Good water resistant.
- High polymer concentration for strong bond.
- Environmentally friendly
- Rapid cure and bond strength.
- Excellent resistance to alkali and efflorescence.

SUBSTRATES;

- Masonry substrates
- Concrete block
- Wire cut clay block
- Unglazed brick

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.

2. Remove any loose mortar splashes and cut back protruding block or tie wires

3. For normal concrete block no further preparation is required.

4. Any deep hollows or surface misalignments should first be pre-filled and struck smooth.

5. High suction surfaces can be sealed with Astec Rapid Sealer to aid application in hot dry weather.

6. All release argents must be completely removed from tilt up panel, contact Astec for the correct procedure.

If Unsure, Contact Astec 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 Texture

1. To apply the product as a skim coat, (3mm), 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 by float finishing with a high density blue polystyrene foam float

Render

1. To apply the product as a render, (10mm), use a hawk and stainless steel trowel. The application should occur in two passes, a light first pass followed by a second light, leveling pass.

2. Allow the product to stand for a short period, allowing for surface moisture to stabilize then screed with a 1200mm straight edge or darby to a uniform surface. Any remaining ridges can be smoothed by float finishing with a high density blue polystyrene foam float

NOTE;

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.	**3.6 to 4.0 liters per bag.**
Drying Time at 25°C @ (55% Relative Humidity)	8 hours, (Dry times will vary with changes with substrate, temperature, humidity and residual moisture in the substrate).
Recommended thinners	Water
Wash up	Water
Recoat time at 25°C	2 to 4 hrs
Minimum application temperature	5° C
Finish colour light grey	Light grey
Durability	Exterior/Interior (must be top-coated)
Curing	Not required

COVERAGE

Calculation =1.68kg m^2 per 1mm thickness

COATING THICKNESS	m^2 /20kg bag	kg/m^2
Theoretical spread rate @ 2mm (Minimum)	5.95	3.36
Theoretical spread rate @ 4mm	2.98	6.72
Theoretical spread rate @ 6mm	1.98	10.08
Theoretical spread rate @ 10mm	1.19	16.8

LIMITATIONS

- Should not be applied over cement sheet or previously painted surfaces.
- Should not be applied in temperatures below $3^{O}C$ or in very hot and windy conditions or above $35^{O}C$.
- Protect from freezing temperatures for 24 hours after application.
- Protect from heavy rain for 8 hours after application.

WARRANTY

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