





# Insulated Concrete Formwork (ICF)

## EXTERIOR PLASTER SPECIFICATION

coat. If any areas require greater than a 50mm application, they must be done in several coats and left to dry between. All stress points should be reinforced with butterflies of mesh. Once a layer of Thermorender has been applied to the substrate it should be floated or screeded flat to achieve a level plane which is free of deviations. Once the material is dry it can be sanded flat using a longboard or scraped with a broad-knife to remove any ridges or minor bumps which have been left behind. The finished thickness of the Thermorender will be dependent on the condition and alignment of the substrate it is covering.

Once the substrate is flat and true the entire surface of all walls and any polystyrene shapes added to the surface of the substrate must be mesh reinforced with 160g fibreglass mesh embedded in Powaflex plaster. The instructions for mixing the base coat plaster are clearly spelt out on the bag.

It is important that each mix stands for approximately 10 minutes and is then re-stirred and the final consistency adjusted. This allows the thickening agents in the plaster to take effect and stops the brew becoming too thick too quickly. Do not use plaster that has been mixed for more than one hour. The plaster will continue to stiffen slightly over the hour.

Thickness is critical - a minimum thickness of 3-4mm must be achieved with this first coat. Do not force the mesh hard down onto the surface of the substrate. The mesh pattern should be "grinning" through, but the mesh itself completely covered with plaster. Apply a 100 to 200mm band of plaster around the corner and imbed the overhanging corner mesh. Once imbedded scrape away the plaster at the edge of the mesh to ensure there is no plaster ridge there when you join on later. Repeat the process. Mesh must overlap the adjacent drop and plaster coat by at least 30mm. The mesh and plaster coat must cover all polystyrene surfaces including the polystyrene

### Finishing Options

- Acratex 951 Coventry Coarse
- AcrylicTexture - 15
- Acratex 951 1mm Super
- TrowelAcrylic Texture - 15
- Acratex 951 Sienna Coarse Sand
- Finish Acrylic Texture - 15
- Acratex 951 Sienna Natural
- AcrylicTexture - 15
- Specialized FlexiFloat 20kg This product is a bagged texture and not trowelable
- Specialized FlexiFloat 10kg This product is a bagged texture and not trowelable

### WEd

#### 955 Acrashield Advance

955 Acrashield Advance has been specially formulated for use over plasters. All plastered surfaces must be coated with 1 coat of Acratex 501/10 Green Render Sealer and 2 coats of 955 Acrashield Advance tinted to the selected colour and applied by brush and roller at a spread rate of approximately 6m<sup>2</sup>. Other paint systems are not covered by this specification sheet and Specialized Construction Products will not warrant the use or suitability of alternative paint systems over the surface of its plaster finishes

### Curing

The curing time of Specialized's ICF System will vary due to ambient temperature, relative humidity, surface temperature, surface porosity, application methods, and/or the thickness of the material. All freshly applied material must be protected from inclement weather for a minimum of 24 hours after application. It is the responsibility of the plaster applicator to determine if the product is cured and/or dry prior to applying any additional coats that may be required or exposing the applied product to rain, snow, dew, and/or any other inclement weather condition that may have a detrimental effect. Although this system contains cement and it will not fully cure for 28 days, if the Powaflex has had a finish applied over its surface, and as long as it is lightly hosed down with fresh water 12 hours prior to painting, it can be painted after the finish coats have cured for a minimum of 3-4 days.

### Limitations

**DO NOT** apply the system when the ambient or surface temperature is below 10°C or above 30°C or will be in that range for the 24-hour period after application. When hot, dry, or windy conditions exist, moist curing and protection must be provided. Material that is allowed to freeze or material that dries too quickly may suffer irreparable damage.

**DO NOT** add any other materials to the Powaflex or deviate from the mixing or application procedures outlined in any of Specialized Construction Product's technical data sheets without written approval from Specialized Constructions Products.

**DO NOT** apply Powaflex unless the substrate has been properly cleaned and prepared. See Surface Preparation above.

**DO NOT** add any more water than prescribed by the technical data sheet.

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**DO NOT** wet the wall prior to the application of this material.

**DO NOT** reactivate Powaflex plaster with more water once it has begun to set.

**DO NOT** mix more plaster than you can use in 45 minutes

**NOTE: Failure to follow the manufacturer's written specifications could result in the following but not limited to spalling, cracking, peeling, chipping, delamination, discoloration, wash off, and overall system failure.**

### Cleaning

Cleaning may be accomplished with water immediately after use. Clean the whisk and the bucket between mixes and discard the cleaning water.

### Plaster Storage

In bagged form this product must be stored in a dry area, off the floor on a timber pallet or timber dunnage and it must be protected from the weather and from mechanical damage. Rotate the stock to ensure that the oldest material is used first. Plaster stock that is older than six months should be discarded.

### Maintenance

The wall cladding system should be regularly cleaned, at least annually, by washing with clean water to remove dirt and to maintain the finish appearance. Grime may be removed with warm water and detergent.

Plastered walls should be recoated with either 955 Acrashield Advance an approved paint system at 5 to 8-yearly intervals or sooner if required to maintain watertightness. Regular checks, at least annually, must be made of the system to ensure that the weather resistant coating is maintained watertight, and that the sealant, flashings, and other joints continue

to perform their function and do not allow water to penetrate. Failure to correctly maintain the system may void any long-term warranties offered with the system. Any accidental damage to the cladding must be repaired immediately using Specialized Construction Products materials.

## Warranty

The recommendations, suggestions, statements and technical data provided by Specialized Construction Products are based on the best current knowledge available and are given for information purposes only without any responsibility for their use. It is expressly understood and agreed that the buyer's sole and exclusive remedy shall be the replacement of defective products, and under no circumstance, shall Specialized Construction Products be liable for incidental or consequential damages. Specialized Construction Products neither assumes, nor authorizes, any others to assume for it any liability with respect to furnishing of the product. Handling and use of the products are beyond the control of Specialized Construction Products; therefore, no warranty is made, expressed or implied, as to the results or on site quality that can be obtained from the use of the product.

### System Guarantee Period

15 years from date of practical completion.

### Workmanship Guarantee Period

5 years from date of practical completion.

## Technical Assistance

Assistance and information is available by calling Specialized Construction Products on (09) 414 4499 or 0800 800 79 or by e-mail at [info@specialized.co.nz](mailto:info@specialized.co.nz).