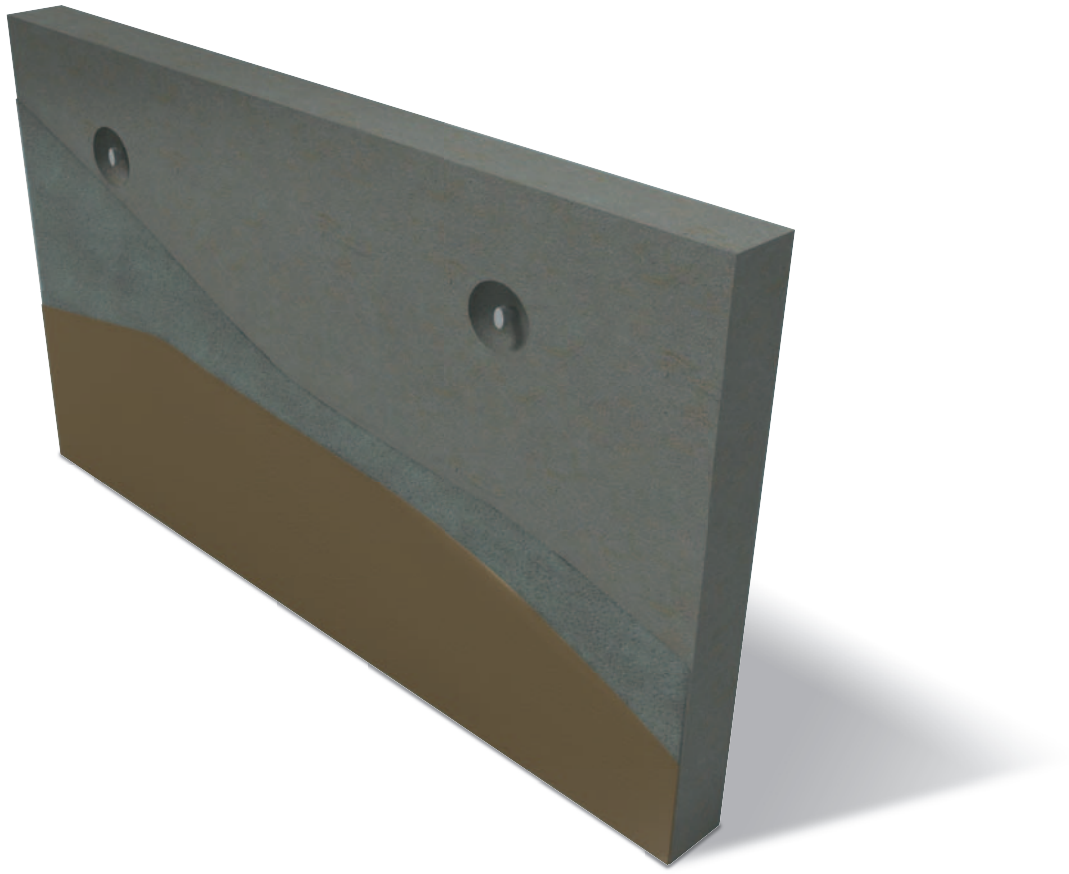
Precast Skimming & Fibre Cement Soffit Jointing Specification

Project Name:
Project Address:
Specification Prepared For:
Specifiers Name:
Date:
Licensed Specialized Plastering Contractor:
License Number:



Introduction

This specification is for the application of Specialized Construction Products Precast Skimming Compound. Specialized Construction Product's Precast Skimming Compound is a preblended, cement-based plaster that can be easily applied to provide a sandable, permanent finish to dense concrete surfaces and compressed fibre cement sheets prior to the application of a chosen paint system. Precast Skimming Compound has been specifically designed to fill pin holes, small surface cracks and other minor surface irregularities that occur during the fabrication of tilt slab panels and other precast concrete structures. Precast Skimming Compound can also be used as a sandable feather edge material for skim-coating correctly jointed fibre cement sheets and for jointing cement-based soffit linings prior to painting or laying tiles.

Pre-Plastering Requirements

All precast panels must be formed true and even and finished to NZS 3114 F5 standard. The surface deviation is to be no greater than 3mm per 1200mm radius. If the concrete has had additives added or release agents applied this may affect the adhesion of the

applied plaster system. Before plastering commences confirm with the Certified Plasterer that appropriate cleaning has taken place. All concrete surfaces shall be clean and dry and any defects, holes or chips deeper than 2mm shall be patched with Specialized's Fine Mesh Coat or another approriate Specialized alternative prior to skimming. All lifting lugs in the tilt slab should also be prefilled with Specialized's Masonry Levelling Compound and left to dry before they are skim coated. Ensure the concrete and any repairs are cured before plaster application commences.

The precast panels or fibre cement sheets must be installed in strict accordance with the manufacturer's specifications and recommended installation procedures. With regard to fibre cement soffits, care shall be taken to ensure that nailing patterns are maintained, and that sheet edges are not damaged during installation. Ensure that all framing members are true and straight in both horizontal and vertical planes. Where sheets are to be continued over stud/frame junctions, care shall be taken to ensure that the horizontal and vertical planes are maintained true across the junction.

The manufacturers required curing time must be allowed after placement of the precast panels to ensure all bonding compounds have completely cured and the walls have stabilised. The finished appearance of the wall is highly dependant on the standard of the wall construction.

This system must not be used in situations where water may pond. A minimum slope of 10° is required on all sills and copings. It is critical that pipes are flashed appropriately in accordance with E2 fig 68. All pipes must have a downward rake of a minimum of 5° and must be sealed in place using MS Silaflex or another approved equivalent both before plastering and after the installation of the Precast Skimming Compound.

Construction Joints must be provided according to the panel manufacturers design criteria. All construction joints must be in place and must be waterproof prior to the commencement of plastering.

Surface Preparation

All nibs, protrusions and excess mortar on the surface of the panels or irregularities in the slab must be ground off prior to plastering.

All surfaces to receive an application of Specialized's Precast Skimming Compound must be clean and free of debris, dirt and dust, efflorescence, grease, oils, curing agents, cleaning solutions, mould and algae or any other contaminants that may affect adhesion. Painted or glossy surfaces must be specially treated prior to the application of any plaster material, please refer to Specialized Construction Products for specialist advice before you proceed. All cracks that may be the subject to ongoing movement must be correctly repaired and reinforced.

Some smooth, dense concrete surfaces such as poured insitu concrete must be slush coated prior to the application of any plaster to ensure a suitable bond is created, please refer to Specialized Construction Products for specialist advice before you proceed. Tilt slab and other precast concrete items should be chemically cleaned and water blastered to ensure any mould release agents are removed before the plaster is applied. Failing to correctly prepare the concrete substrate may cause delamination, chalking or failure in the base coat.

All joinery must be installed with air seals to comply with the manufacturers techincal details.

To ensure all sill, head and jamb rebates are completely waterproof they must be sealed with a minimum of two coats of Specialized's Tankit waterproofing system that has been correctly mixed with Portland cement and thinned to a brushable consistency prior to plastering. Before the Tankit is applied the substrate it must be throughly primed using Specialized's 'Tankit Primer'. When the primer is dry, the Tankit is applied directly to this primer. Do not apply Tankit when rain appears imminent or where the surface tempertaure is below 8°C and falling or greater than 30°C. The Tankit System should be applied at approximately 1.5m²/litre per coat. This is a wet film build of 650 micrometres per coat. A minimum of 8 hours must be left between coats.

All sill rebates must have a minimum fall of 15 degrees.

Do not wet down masonry surfaces before plastering and do not apply plaster to surfaces that are wet from rain or overnight dew.

Safety Precautions

Avoid contact with eyes and prolonged contact with skin. Wash thoroughly after handling all wet or dry plaster materials. In case of eye contact, flush immediately with running water for at least 15 minutes. Consult a physician immediately. Do not take internally. The potential irritant nature of the plaster dust (in dry powder form or from subsequent cutting of the hardened product) is recognised. Paper dust masks or a respirator must be worn at all times when the product is being mixed. Be sure to provide adequate ventilation when working in enclosed areas. The wet compound is alkaline and prolonged skin contact should be avoided. People with sensitive skin must wear rubber gloves when handling the product. Materials Safety Data Sheets are available on request.

Materials Application

When using the plaster 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.

NOTE: ***Precast Skimming Compound can be sanded with P180 grit sand paper up to 72 hrs after it has hardened to achieve a smooth defect free background which can be painted. The longer this product is left to harden the harder it becomes to sand.***

On-site application is beyond the control of Specialized Construction Products Ltd. Therefore it cannot guarantee workmanship, supervision, aesthetic quality or the correct preparation and application of its products or the substrates to which its products may be applied.

FIBRE CEMENT SHEET JOINTING AND SKIMMING

All joints in the fibre cement should be primed with Specialized Resin – watered down 1 part of resin to 2 parts of potable water prior to plastering. Once the primer has dried lightly embed a layer of Specialized 65mm jointing tape into the surface of Specialized Fine Mesh Coat and trowel flat removing all dags and excess material. In the summer months one litre of resin should be added to every 20kg bag of Fine Mesh Coat to aid adhesion. 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. Leave to dry over night. Once dry apply a tight coat of Precast Skimming Compound to the joint ensuring the joint is level with surrounding sheet plane. Mesh must overlap the adjacent drop and plaster coat by at least 30mm.

PRECAST CONCRETE SKIMMING

Apply a tight coat of Precast Skimming Compound to the entire surface of the panel ensuring a wet edge is always kept between successive sweeps.

FIBRE CEMENT SOFFIT JOINTING AND SKIMMING

All joints in the soffit sheets should be primed with Specialized Resin – watered down 1 part of resin to 2 parts of potable water prior to plastering. Once the primer has dried place a layer of Precast Skimming Compound into the joint and embed a layer of dampened paper gibstoping tape into its surface removing all dags and excess material. The paper tape should be completely covered with plaster. Leave to dry over night. Once dry apply a tight coat of Precast Skimming Compound to the joint ensuring the joint is level with surrounding sheet plane.

ALTERNATIVE FINISHING PLASTERS OPTIONS

- **Float Finish**
  A polymer modified cement based plaster which is polished flat to achieve a fine granular finish.
- **Spanish Finish**
  A polymer-modified, cement based plaster used to achieve an undulating adobe style finish. This product can be applied in various thicknesses and using a number of different techniques. Before finish coating begins ensure the style of finish that is desired has been correctly communicated and understood by the plasterer. A trial sample is highly recommended.
- **Texture**
  A polymer-modified, cement based plaster which can be sprayed through a sagola gun to achieve a finely spiked texture finish.
- **Fine Mesh Coat**
  A polymer-modified, cement based plaster which can be sprayed through a hopper gun or a sagola gun to achieve a heavy stucco plaster finish.

PAINT

- **Plastershield**
  A 100% acrylic-based paint that has been specially formulated for use over cement based plasters. All plastered surfaces must be coated with a minimum of 2 coats of Plastershield tinted to the selected colour and applied by brush and roller at a spread rate of approximately 6m²/litre. Other paint systems are not covered by this specification sheet and Specialized Construction Products Ltd will not warrant the use or suitability of alternative paint systems over the surface of its plaster finishes.

Paint colour required .....

Manufacturer .....

Curing

The curing time of Specialized's Precast Skimming Compound 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 affect. Although Precast Skimming Compound contains cement and it will not fully cure for 28 days, if it has been applied as a finish, and as long as it is lightly hosed down with fresh water 12 hours prior to painting, it can be painted after it has cured for a minimum of 3-4 days.

Limitations

DO NOT apply the Precast Skimming Compound when the ambient or surface temperature is below 4°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 Precast Skimming Compound 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 Ltd.

DO NOT apply Precast Skimming Compound 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 for this product.

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

DO NOT reactivate Precast Skimming Compound 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 manufacturers written specifications could result in the following but not limited to spalling, cracking, peeling, chipping, delamination, discoloration, wash off, and overall system failuree.***

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 finished appearance. Grime may be removed with warm water and detergent.

Plastered walls should be recoated with either Plastershield or another 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 Ltd 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 Ltd be liable for incidental or consequential damages. Specialized Construction Products Ltd 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 Ltd; 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

Technical assistance and information is available by calling Specialized Construction Products Ltd at (09) 4144499 or FAX (09) 4144489 or by e-mail at **specialized@xtra.co.nz**.

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