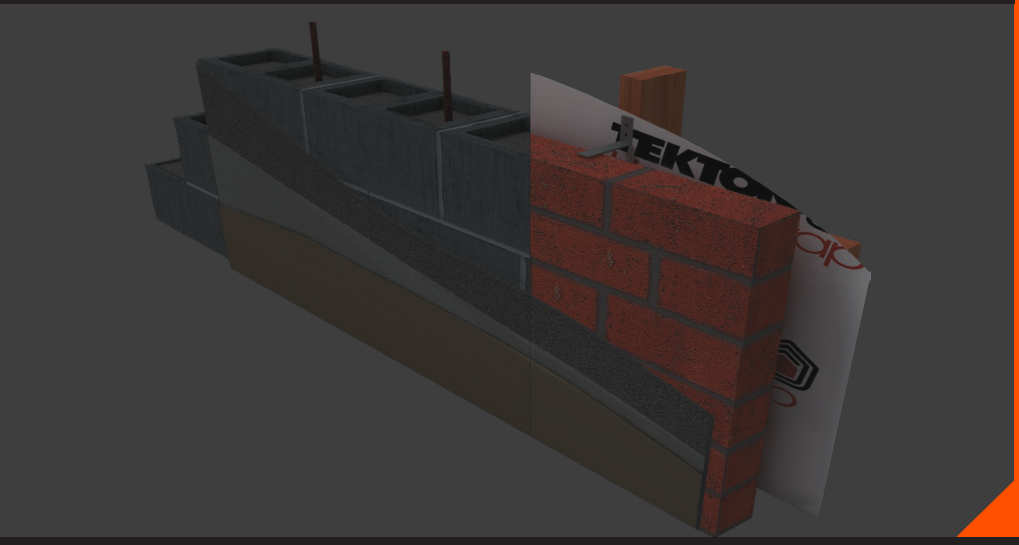
MASONRY & BRICK PLASTERING SPECIFICATION



Masonry Levelling Compound

PROPRIETARY
SOLID PLASTER

Project details

Project Name:

Project Address:

Specification Prepared For:

Specifier's Name:

Date:

Licensed Specialized Plastering Contractor:

License Number:

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NEW ZEALAND MADE

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Introduction

This is a specification for Specialized's proprietary solid plaster system which can be used over a solid backing of concrete masonry, clay brick veneer, in-situ or pre-cast concrete.

The plaster system consists of either the cement-based option of a minimum 4mm thick base coat of Masonry Levelling Compound plaster, followed by a selection of cement-based finishing plasters or Baumit acrylic finishing plasters. Or the Powaflex acrylic option of a flanking coat of Masonry Levelling Compound, followed by a mesh coat of Powaflex acrylic plaster and a Baumit acrylic finishing plaster. Both base coat options are finished with an acrylic exterior paint system.

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Pre-plastering requirements

The masonry/brick substrate must be installed in strict accordance with the manufacturer's specifications and recommended installation procedures. All pointing shall be flush finished. The manufacturer's required curing time must be allowed after placement of the bricks to ensure all of the pointing has completely cured and the walls have stabilised. Failing to allow the pointing to fully cure can lead to excess shrinkage and cracking on the pointing lines after the walls have been plastered. The finished appearance of the wall is highly dependant on the standard of the wall construction.

All the necessary waterproofing elements must have been completed and checked and the joinery must be in place. 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 the building paper turned to the outside of the building and have the building paper taped to the outside of the pipe. Alternatively a lead flashing or similar should be fitted. All pipes must have a downward rake of a minimum of 5° and must be sealed in place using MS Sealant or another approved equivalent both before plastering and after the installation of the chosen base coat.

All meter boxes should have an aluminium or lead fl ashing fixed over the head and must allow water to drain to the outside of the building should water egress from above.

Particular attention to detail and workmanship must be given to the weatherproofing details contained in the technical literature relating to flashing and sealing building penetrations or junctions with other building materials. This system is not designed as a waterproofing element for junctions between dissimilar materials. Its job is to provide an aesthetically pleasing, crack resistant surface coating.

All junctions between the masonry/brick substrate and dissimilar materials must be correctly flashed and sealed with MS Sealant or another approved equivalent. The MS sealant must be installed in strict accordance with the manufacturer's requirements and must be left to properly cure prior to plastering.

Construction joints must be provided according to the brick masonry manufacturer's 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 bricks or irregularities in the slab must be ground off prior to plastering.

All surfaces to receive an application of MLC 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 must be slush coated before application of MLC 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 with a water blaster to ensure any mould release agents are removed before the plaster is applied. All very porous surfaces should be sealed with an appropriate paint sealer prior to the application of the plaster. Failing to correctly prepare the masonry substrate, may affect the aesthetic appearance of the finished wall.

Do not wet down masonry surfaces before plastering and do not apply MLC 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

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.

CEMENT-BASED BASE COAT OPTION

■ **Masonry Levelling Compound (MLC)**

MLC can be placed using a steel trowel and conventional hand plastering techniques or can sprayed applied using a plastering pump. MLC must be applied a minimum of 4mm thick to ensure it maintains its cohesive strength and can be applied up to 50mm thick in one coat. If any areas require greater than a 50mm application they must be done in several coats and left to dry between.
If the pointing between the bricks is in poor condition or if the dwelling is subject to excessive movement a layer of 160g alkali-resistant fibreglass mesh can be embedded into the MLC to increase the strength of the finished product. All stress points should be reinforced with butterflies of mesh. Once a layer of plaster 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 MLC is dependant on the condition and alignment of the substrate it is covering.

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FINISHING 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.

■ **Coarse Texture:**

Use coarse mesh coat. A polymer-modified, cement based plaster which can be sprayed through a sagola gun to achieve a finely spiked texture finish.

■ **Fine Texture:**

Use 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.

■ **Granopour Fine 1.0mm Acrylic Texture**

Ready to use, synthetic resin-based render which is polished flat to achieve a fine granular finish.

■ **Granopour Fine 1.5mm Acrylic Texture**

Ready to use, synthetic resin-based render which is polished flat to achieve a fine granular finish or sprayed through a hopper gun or a sagola gun to achieve a fine stippled appearance. The smooth plaster will not cover up the background imperfections, particularly when walls are subject to side lighting at certain times of the day.

POWAFLEX POLYMER BASE COAT OPTION

The areas around all penetrations should be completed first using Powaflex to bed the soft flexible 160g/m^2 alkali resistant mesh. Once all penetrations and awkward areas have been completed all the flat areas of wall should be done using a 160g/m^2 alkali resistant hard mesh.

Drops of hard mesh should overlap by a minimum of 50mm. At the corners of all openings, a second layer of mesh 100x200mm (butterfly) must be applied and embedded in the mesh coat plaster on the diagonal to reduce the chance of any subsequent cracking at these high stress points.

ACRYLIC FINISHING OPTIONS

There are two options once the Powaflex Base Coat plaster and mesh have been applied.

■ **Granopour Fine 1.0mm Acrylic Texture**

Ready to use, synthetic resin-based render which is polished flat to achieve a fine granular finish.

■ **Granopour Fine 1.5mm Acrylic Texture**

Ready to use, synthetic resin-based render which is polished flat to achieve a fine granular finish or sprayed through a hopper gun or a sagola gun to achieve a fine stippled appearance. The smooth plaster will not cover up the background imperfections, particularly when walls are subject to side lighting at certain times of the day.

PAINT

■ **Plastershield:**

A 100% acrylic-based paint that has been specially formulated for use over Specialized's 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 6m^2.

As an alternative to Plastershield, a latex-based exterior paint system complying with any Parts 7, 8, 9, or 10 of AS3730 may be used. The paint system must be applied in accordance with the paint manufacturer's instructions.

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 times of MLC and Powaflex 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 MLC contains cement and it will not fully cure for 28 days, if the MLC has had a cement based 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 plaster 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 plaster or deviate from the mixing or application procedures outlined in any of Specialized Construction Products' technical data sheets without written approval from Specialized Construction Products Ltd.

■ DO NOT apply plaster 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 the MLC 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 manufacturers written specifications could result in the following but not limited to spalling, cracking, peeling, chipping, delamination, discoloration, wash off, and overall system failure.

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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. MLC plaster stock that is older than six months should be discarded.

Maintenance

The wall cladding system should be 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 to plastering.

Workmanship Guarantee Period
5 years from date of practical completion to plastering.

Technical Assistance

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