



STOARMAT PLASTER SYSTEM SPECIFICATION

STOARMAT PLASTER OVER PRECAST PANEL CONSTRUCTION

Based on BRANZ Appraisal No 515 (2007) - ACAD Details www.sto.co.nz building with Sto

Project:

Prepared for:

StoArmat Plaster System over existing cracked precast panel construction

This specification details the application of the **StoArmat Plaster System** incorporating;
Preparation to remove any surface contaminates, application of the **StoArmat Classic meshed** reinforcement plaster finished in the selected **Stolit K 1.0 Or 1.5mm** coloured finishing render coated in **StoLastic Color** façade paint over existing exterior concrete pre cast construction.

1. EXISTING CONCRETE CONSTRUCTION

Responsibility

All work in this section shall be the responsibility of the Sto Contractor, unless otherwise expressly agreed.

General

The system shall be applied as set out below, over appropriately prepared existing concrete surfaces. The system is a trowel applied finish, and therefore appropriate masking must be carried out prior to commencement of **StoArmat Plaster System** application. All works shall be installed strictly in accordance with StoArmat Miral ACAD or project specific details. Refer Stoanz Limited for details.

Surface mounted fixings

Any surface mounted fixings such as rain water heads, downpipes, lights, security sensors etc shall be removed checked they are sound and securely reinstated once the plaster system has been installed with the appropriately details to effect a waterproof junction.

Recessed Joinery

All joinery shall be checked to ensure joinery elements are watertight. Joinery must have sealant beads applied to the perimeter at the rebate joinery transition including the sill unless the sills are free draining.

Sealant Beads

All sealant beads around the joinery and penetrations shall be inspected and replaced as necessary using **MS Sealant** as per the manufactures instructions prior to commencement.

Moss Treatment

All surfaces shall be treated with a chemical solution to kill all moss and mould spores ensuring the stipulated kill times are observed before commencing.

Cleaning

All surfaces to be plastered shall be water blasted with a 3000psi machine and chemically cleaned to remove all contaminants supplemented by hand or mechanical removal of any loose or friable material, etc to establish a sound clean substrate. **Note:** When cleaning and using the waterblaster due care must be taken to avoid any damage to the building elements or adjacent surfaces.

Priming

Any bare surfaces are to be primed with one (1) coat of **Sto Putzgrund** applied by brush and roller.

Sto Crack Repairs

All cracks over 1.0mm shall be raked clean, sealed with **Stoplex W** and filled with **StoEze Joint** and left to dry.

Penetrations

Penetrations such as waste pipes and fixing brackets shall be adequately flashed and waterproofed prior to the plaster installation with all penetrations through the Sto Plaster System adequately sealed with M S Sealant. All electrical wiring that penetrates the Sto plaster system shall be in cased in appropriate sized uPVC conduit sheathing acting as an insulator installed @ a minimum 5° down wards rake. The conduit and any plumbing piping etc must then be sealed using MS Sealant.

Foundations

As required to clean dry prepared walls apply Sto Flexyl waterproofing to the perimeter of the walls from 150mm above ground level to 100mm past the plaster in ground termination point.

Control Joints

Where required the control joints can be squared up with GlueCoat Mortar and Sto PVC 12mm control joints inserted to close up the gap and upgrade the existing sealant joints. This work is to be priced separately as requested.

StoArmat Classic meshed reinforcement plaster

To clean dry surfaces, apply one coat of **StoArmat Classic** by hawk and trowel at approx thickness of 2.0 – 2.5mm. While the **StoArmat Classic** is still wet, lightly embed **Sto Mesh**, ensuring adjacent drops of mesh are overlapped by a minimum of 75mm and the mesh is embedded into the **StoArmat Classic** allow to dry. Then apply one further coat of **StoArmat Classic** at approximately 1.0/1.5mm thick by hawk and trowel to leave a plane even surface free of voids or deviations (DFT 3.0mm to be achieved). Once dry remove any slight ridging etc of finished surface with a Sto rasp ready for subsequent finish. **Note:** all external corners are to have a Sto pre meshed corner angles and internal corners are to be double mesh wrapped.

Detailing: Always install **Sto pre meshed Drip Edges** on window reveal heads, **Sto pre meshed corners** and **Sto Stop Beads** as required.

Sealant Installation

Any suspect sealant between joinery and around penetrations, flashings and dissimilar materials shall be cut out and re sealed with **MS Sealant** as necessary.

Stolit K 1.0 or 1.5mm coloured finishing render

To clean dry plastered surfaces apply selected **Stolit K 1.0 or 1.5mm** coloured finishing render tinted to the selected colour with a steel trowel gauging to the thickness of the aggregate size and finish with a plastic trowel to the requisite pattern and allow to dry overnight. The spreading rate for the **Stolit K** shall be approximately 12sqm or 9sqm - m²/per pail.

StoLastic Color facade paint

All **Stolit K** plastered surfaces shall receive one (1) full coat of **StoLastic Color** façade paint tinted to the selected colour and applied by brush and roller at the approximate spreading rate of 6/7 m² / litre. **Note:** Always maintain wet edges between cutting in and rolling tight to achieve an even paint film build.

2. GENERAL NOTES

Colour

As selected by the client or Architect Stoanz recommend the selected colour should have a minimum light reflectance value of 20% to avoid thermal stress.

3. MAINTENANCE

The **StoArmat Plaster System** must be cleaned annually by low pressure washing to remove all existing surface contaminants, with special attention to non-rain washed areas. When recoating is required at the 9 -10-year period to maintain long-term integrity and a pristine condition, this can be carried out using a Sto Coating over a cleaned surface.

Where a colour change is required Stoanz Limited should be consulted for a specific specification.

Physical damage must be repaired using the appropriate Sto Plaster as required.

Annual inspections are to be implemented after completion to clearly identify any faults in the cladding, sealant beads, flashings and any other connections. A repair process must be implemented immediately to address any faults so the long-term warranty is not compromised.

4. WARRANTY

The **StoArmat Plaster System** described in this specification is warranted for a period of ten (10) years from the date of application. The weatherproof warranty is provided to comply with the required clauses in, B2 Durability and E2/AS1 External Moisture and F2 Hazardous Building Material performance of the New Zealand Building Code for this type of building element with only normal maintenance requirements which are stated in the custom Stoanz Ltd's specification.

A five (5) year workmanship warranty is issued by the Sto Contractor carrying out the work, and is backed by the Manufacturer as to the suitability for use of the material supplied, provided that

- (a) The Approved Sto Contractor, who must adequately complete and sign a Sto QA Compliance Form and PS3 Workmanship Warranty, carries out all specified work.
- (b) All work is carried out in accordance with this Specification or any written amendments thereto issued by the Manufacturers.
- (c) The warranty does not cover situations where the plaster system is subjected to physical disturbance, chemical spillage or interference.



The information contained in this Specification is based on our experience and testing and represents the latest information available at the date of production. No responsibility is taken for uses to which this information may be put, but we advise that where application of products and processes is in complete conformity with this specification an appropriate warranty is available. We reserve the right to alter or update information parameters and formulations at any time without prior notice.