



SPECIFICATION
STOARMAT PLASTER SYSTEM
 To refurbish existing fibre cement sheet cladding incorporating;
STO CRACK & JOINTING ADDRESSMENT a full coat of
STOARMAT MESHED reinforcement plaster finished in
STOLIT K coloured finishing render coated in
STOLASTIC COLOR façade paint

Based on BRANZ Appraisal No 488 (2006) - ACAD Details www.sto.co.nz building with Sto

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| Project: | To Be Advised |
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| Prepared for: | To Be Advised |
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1. PREAMBLE

This specification is for the application of the **StoArmat Plaster System** to refurbish the existing textured cladding incorporating; **StoArmat Jointing & Sto Crack Addressment** as required, a full **StoArmat Meshed** reinforcement plaster coat finished with selected **Stolit K 1.0 or 1.5mm** coloured finishing render coated in **StoLastic Color** façade paint over the existing textured fibre cement sheet cladding.

Note: This specification addresses the exterior condition of the existing cladding only it is understood that any existing structural problems, timber or other building element defects present will be rectified by others before the **StoArmat Remedial Plaster System** is applied.

2. CLADDING CONDITION

Responsibility

Unless expressly agreed in writing between the relevant parties all work in this section shall be the responsibility of the principal, owner or their appointed agent.

Existing Framing & other Building elements

All framing members and other building elements are excluded from this specification. As required it is the responsibility of the owner or their agent to initiate a process to ensure that all the building elements are still sound, free from any contamination or moisture and meet the applicable NZBC requirements.

Note: The Sto applicator is to advise the owner of any suspect material found during the refurbishment.

Existing Textured Fibre Cement Cladding System

All cladding shall be checked to verify it is installed correctly and still securely fixed. Any incorrect details or defective or cracked sheets are to be replaced. All surface mounted fixings such as gas fittings, rain water heads, guttering, handrails etc shall be checked they are sound watertight, secure and correctly positioned. As required remove all fittings before plastering repair & alter and re fix securely.

Note: Any sheet joints in line with joinery jambs and all interstorey floor joints should be control joints. Any corroded nails, corner profiles or cladding components shall be removed and replaced as required and where fascia boards are fitted over the cladding ensure the sheets have been waterproofed and jointed behind.

Fixtures & Fittings

Pipes and wiring must be appropriately sealed and light fittings, security boxes, etc should be removed the wiring connection checked and refitted after the plaster system has been completed.

Flashings

Window and door joinery heads require proprietary head flashings that should extend past the joinery jambs by a minimum 20mm. Building flashings and dissimilar material joints shall be checked to verify they are sound and watertight.

Face Fixed Aluminium Joinery

All joinery shall be checked that it is still watertight and all mitres, drain holes, vents etc are sound and clear, head flashings should have been dimensioned appropriately and on face fixed sheets mask 20/30 mm past the joinery as per the sheet manufactures details. Joinery jambs and sills (excluding flashed free draining sill trays or flange drainage holes) must have a sealant bead applied to the perimeter at the cladding to joinery transition. **Note:** As required a joinery specialist may be required to test and evaluate the joinery to ensure the windows & doors are still sound and waterproof.

Foundations

Ground clearances are required to meet the NZBC which requires the existing cladding to extend 50mm past the bottom plate with the cladding finishing a minimum 100mm above paved surfaces and 175mm above unpaved ground surfaces.

3. SURFACE PREPARATION

Responsibility

All work in this section shall be the responsibility of the Sto Applicator

Moss Kill Treatment

All surfaces shall be treated with **moss & mould killer** solution to kill all moss/mould spores and growths. Stipulated kill-times shall be observed before water blasting.

Cleaning

All surfaces to be coated shall be water blasted or chemically cleaned to remove all dirt and debris supplemented by cutting or rapping off any loose; friable joints, coatings or texture to establish a sound clean substrate. Care must be exercised during the cleaning and preparation process not to damage the existing surface, seals or building components where a water blaster is used due care must be taken to avoid damaged from excessive water pressure.

Control Joints

Control joints as designated by the fibre cement sheet manufacture must have been followed. Refer **StoArmat Plaster ACAD details** for specific control joint design details. If required new control joints can be installed in the **StoArmat Mesh** coat using the **Sto uPVC 'V' control joint** ensuring the mesh coat does not overlay the control joint. **Vertical** control joints are required to be placed **every 5.4 lineal** metres preferably above & below the joinery jamb lines. **Horizontal** joints are required at interstorey transitions or ever 5.4 metres vertically excluding gables with all control joints sealed with MS Sealant.

Note: Where cracks have occurred due to structural stress at narrow widths etc these areas can be incorporated into control joints to alleviate the stress.

Face Fixed Joinery

Check all joinery, the jambs and sill should be sealant jointed as necessary replace with **MS Sealant** or rake out and install **StoArmat jamb & sill flashings** to re flash the joinery.

Sealant Beads

All new sealant beads associated with the cladding system shall be **MS Sealant**. The sealant beads around the **joinery, fittings, penetrations shall be checked** and reinstalled as required in accordance with the manufactures TDS Sheets prior to commencement of the system application.

Architectural Shapes – Profiles

Any existing profiles shall be checked. The profiles shall have been pre meshed or receive a **StoArmat Meshed** reinforcement plaster coat. New profiles are placed after the **StoArmat Mesh** reinforcement coat bedded in Gluecoat mortar and mechanically fasten as required. The profiles then require a continuous MS Sealant bead at the wall to profile junction before the finishing is applied.

Note: when a pre meshed poly shape is used to cover the horizontal inter storey joints the under side must have a minimum 5mm movement gap.

Balustrade Tops (Roof parapets are metal capped @ 5 degrees)

A minimum fall of 10 degrees is required on any plastered horizontal surfaces. On plastered balustrade the top must be waterproofed by applying **Sto Flexyl Meshed waterproofing** by trowel extending the **Sto Flexyl Mesh** 75mm up and down any adjacent vertical surfaces. Allow finished Flexyl surface to cure for a minimum of 24 hours before application of subsequent **StoArmat Meshed** reinforcement coat. **Note:** Sto Flexyl Meshed waterproofing has been evaluated by **BRANZ** to meet **AS/NZS 4858** requirements as required by E2/AS1.

4. STOARMAT PLASTER SYSTEM

General

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

Note: All surfaces to be plastered must be treated with moss and mould kill and water blasted clean as previously detailed before commencing any remedial work. Where the existing texture is coarse the surface can be cut back by running a diamond cup grinder over the surface to flatten the tops and as required a coat of **LevelLite** basecoat plaster applied to straighten the surface.

Sto Putzgrund priming

Any new sheets, bare areas or stripped out joints must be primed by applying one full coat of **Sto Putzgrund**, by brush or roller at the approximate spreading rate of 7-m²/litre.

StoArmat Jointing

Any failed joints in the fibre cement sheets shall be stripped out and reinstalled by applying a coat of **StoArmat** to the primed joint and whilst still wet lightly embed **Sto jointing Tape** onto the top of the jointing and leave to dry. Once dry ensure the finished joint is level with the wall plane and all imperfections are flushed smooth using **Sto Crack filler fine**.

Sto Crack Addressment

Where required **Sto Crack filler fine** can be used to reinforce stable cracks by cutting back the texture and applying **Sto Crack filler** reinforced with **Sto RF mesh** to cover the crack.

LevelLite basecoat plaster - As required to level the texture or straighten sheets

To clean dry sealed surfaces, apply one coat of **LevelLite** basecoat plaster by hawk and trowel to fill the texture or level new sheets. While the basecoat is still wet, lightly float the surface to ensure that an even level plane surface free of hollows or deviations is achieved. Once dry remove any ridges with a Sto Rasp or Grater Plane.

Detailing

Sto pre meshed corner beads shall be installed on corners and edges. All internal corners will be checked and reinforced as necessary.

StoArmat Meshed reinforcement plaster

To clean dry surface, apply one coat of **StoArmat** by hawk and trowel at approximate thickness of 2.0mm. While the **StoArmat** 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** allow to dry. Then apply one further coat of **StoArmat** 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 **StoArmat** surface with a Sto rasp ready for subsequent finish. **Note:** all external corners are to have a Sto pre meshed corner angle and internal corners are to be double mesh wrapped.

Sealant Installation

All junctions between joinery and cladding and around penetrations, flashings and dissimilar materials shall be checked and sealed with **MS Sealant** as necessary.

Finishing Renders

Stolit K 1.0 or 1.5mm coloured finishing render

To the clean dry plastered surfaces apply the selected finish **Stolit K 1.0 or 1.5mm** 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. Allow to dry overnight. The spreading rate for the **Stolit K** shall be approximately 12sqm1.0mm / 9sqm1.5mm - per pail.

StoLastic Color façade paint

All **Stolit K** plastered surfaces shall receive one full coat of **StoLastic Color** façade paint tinted to the selected colour and applied by brush and roller at the approximate rate of 5-6 metres per litre depending on surface texture. **Note:** Always maintain wet edges between cutting in and roll tight to achieve an even film build.

5. GENERAL

Colour

Stoanz Limited complies with the E2/AS1 recommendation, that the selected colour must have an **LRV (Light Reflectance Value) of greater than 40%**. If a colour is selected outside of this recommendation, the warranty offered will be affected.

6. MAINTENANCE

Refer; Sto Maintenance Schedule for comprehensive guide

The Sto Plaster System must be cleaned annually by washing to remove all existing surface contaminants (dirt and grime), with special attention to non-rain washed areas. When recoating is required at the 7/8-year period to maintain long-term integrity and a pristine condition this can be carried out using StoLastic Color façade paint over a cleaned surface.

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

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.

7. WARRANTY

The **StoArmat Remedial Plaster System** described in this specification, will provide a ten (10) year system warranty to comply with the required clauses in B2 Durability, E3 External Moisture and F2 Hazardous Material performance of the New Zealand Building Code for this type of building element with the maintenance requirements which are stated in the Sto Maintenance Schedule. This system warranty shall be provided upon final completion of the project.

The warranty is provided by the **Sto Applicator** carrying out the work, and is issued and backed by the Manufacturer as to the suitability for use of the material supplied, provided that:

- (a) All specified work is carried out by the approved **Sto Applicator** who must complete and sign the Sto QA Compliance Procedure Forms and a PS3 Workmanship Warranty
- (b) All work is carried out in accordance with this Specification or any written amendments 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.

