

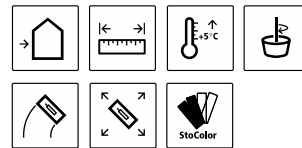
Sto Specification New Zealand

SS606R StoArmat Render on New or Existing Brick Construction

StoArmat Miral Render System over existing Brick Veneer on timber frame construction

BRANZ Appraisal No. 515
CAD Details www.sto.co.nz

Sto Registration: To register your project with Stoanz Ltd please email the completed specification to info@sto.co.nz



1. PROJECT DETAILS

Specifier:

Project and Address:

Project Owner:

Sto Warranty: **StoArmat Miral Render System 15-year Warranty with StoService Assurance**

StoArmat Render System on Existing Brick Veneer Construction: This specification details the **StoArmat Render System on Existing Brick Veneer** with a minimum 40mm cavity incorporating; **Preparation, StoLevel Nov**o render, primed with **Stoplex W sealer**, reinforced with **StoArmat Classic meshed render** finished in selected **Stolit coloured finishing render** coated with selected **StoColor facade paint** over existing or new brick veneer on timber or steel frame construction built within the scope of NZBC Acceptable Solution E2/AS1.

Select Finishing Render:

Select Facade Coating:

Sto Registration Number:
(Sto Use Only)

i.e. 24.01_StoReg tec_sales_SS606_project address

Project Notes:

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2. EXISTING BRICK CONSTRUCTION

2.1 Responsibility - Existing Building Elements

The Sto specification is for the rendering of the exterior surface of the brick veneer only all other building elements are specifically excluded from the specification. It is the responsibility of the property owner or their agent to satisfy themselves that all the building elements are dimensionally sound, load bearing and watertight.

Stoanz Limited accepts no responsibility for defective workmanship in relationship to the application of the Sto system, or for defects in the design, construction, or condition of the building, either as built or in relation to the works.

2.2 Existing Substrates

All existing surfaces are to be checked they are sound and load bearing; any cracks are to be cleaned out and loose or material removed and repaired with the Sto concrete repair system.

2.3 Fixtures & Fittings

Remove all fittings and fixtures such as downpipes, rain-water heads, handrails, lights etc that must be re fitted securely after the system is finished ensuring all connections are watertight. **Note:** Pipes, wiring, fascia's, and lights must be appropriately fitted and sealed.

3. EXISTING BRICK PREPARATION

3.1 Responsibility

All exterior preparation work in this section shall be the responsibility of the **Sto Contractor**, unless otherwise expressly agreed. The Sto Contractor is to check that the existing surfaces and building elements are acceptable for rendering before proceeding. Adequate protection of all dissimilar materials and adjacent surfaces must be under-taken before commencing.

3.2 Chemical Treatment

All surfaces to be refurbished are to be treated with a chemical solution to remove all moss, mould spores and any contaminates ensuring the stipulated reaction times are observed before washing off all residues during the cleaning process.

3.3 Cleaning

All surfaces to be treated shall be water blasted using a 3000psi machine to remove all loose material, contaminates and debris supplemented by mechanical, chemical or hand scraping to remove all friable, defective or adhesion impairing material, etc to establish a clean sound load bearing substrate. Cracks are to be cleaned out as necessary to remove all defective material and any coatings that are adhesion impairing will require removal.

Note: When using a water blaster due care must be taken to avoid the building elements or adjacent surfaces being damaged from excessive water pressure.

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Sealant to Soffits

Given the differential movement between the framing and solid brick veneer a sealant joint / gap is required at the soffit to brick junction to avoid cracking.

4. STOARMAT MIRAL RENDER SYSTEM

4.1 Responsibility

All work in this section shall be the responsibility of the **Sto Contractor** who must assure themselves that the surfaces to be rendered are dry, free of contamination and satisfactory before work commences. Adequate protection of all adjacent surfaces shall be undertaken prior to commencing.

4.2 Selection

Rendering shall be carried out in stages over the substrate incorporating; **StoLevell Novo meshed basecoat**, sealed with **Stoplex W** sealer, **reinforced with StoArmat meshed** render, **selected Stolit coloured finishing render** coated in **StoColor facade paint**.

4.3 Materials

Stoanz Ltd supplies all the following materials

StoLevell Novo basecoat render	StoArmat Classic reinforcement render
Selected Stolit coloured finishing renders	Sto uPVC pre meshed corner angles, finishing edges and drip edges.
Selected StoColor facade paint	StoFlexyl waterproofing
Stoplex W sealer	

4.4 Detailing

Sto uPVC Joinery flashings and **Sto pre meshed corners** are normally positioned on the **StoLevell Novo basecoat**.

4.5 Basecoat Render

To clean, dry, prepared, surfaces apply a basecoat of **StoLevell Novo basecoat render** at an approximate thickness of 6.0 - 8.0 mm by hawk and trowel and float to an even, flat surface free of hollows and deviations while the render is still wet, lightly apply Sto reinforcing mesh ensuring adjacent drops of mesh are overlapped by a minimum of 75 mm and float the surface to ensure the mesh has been embedded in and allow to set green before remove any ridging or bumps in the basecoat with a Sto straight edge or Grid Plane to achieve a straight surface.

As required, install **Sto pre-meshed drip edges**, **Sto pre-meshed corners** and **Sto pre-meshed finishing edges**.

4.6 Stoplex W Sealer

To clean, dry, base coated surfaces, apply a coat of **Stoplex W sealer** by low pressure spray or by brush and roller at an approximate coverage of 8m² per litre.

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4.7 StoArmat Classic reinforcement render

StoArmat Classic HD with hardener for accelerated drying in cold damp weather is also available.

To clean, dry and sealed base coated surfaces apply an even coat of **StoArmat Classic** render by hawk and trowel at approximately 2 mm thick. While the **StoArmat Classic** is still wet, lightly apply **Sto reinforcing mesh** ensuring adjacent drops of mesh are overlapped by a minimum of 75 mm and float the surface to ensure the mesh has been embedded in and allow to dry. Once dry, apply a further coat of **StoArmat Classic** at approximately 1.5 mm (minimum DFT 2.5 mm) by hawk and trowel to cover the mesh and leave an even, flat surface free of voids or deviations.

Once dry, remove any slight ridging etc. of the **StoArmat Classic** with a Sto rasp ready for subsequent top coating. All application procedures for the **StoArmat Classic** must be in accordance with the Sto TDS sheets.

Detailing: Always install **Sto pre meshed angles, drip edges** and **Sto finishing edges** as required.

4.8 Sealant Installation

After the sealer has dried, all render junctions between soffits, joinery, adjacent dissimilar surfaces and around penetrations shall be sealed with **MS Sealant** in accordance with the manufacturer's TDS sheets.

Note: some types of joinery have drainage holes under the sill flange ensure these remain clear.

Where sealant is being applied directly over **StoFlexyl waterproofing**, the StoFlexyl must be primed to promote adhesion in accordance with the sealant manufacturer's instructions including some PVC flashings.

4.9 Stolit Float Finished Renders

Stolit K coloured finishing render 1.0 or 1.5 mm

To all exterior plastered surfaces, apply the **Stolit K 1.0 or 1.5 mm** coloured finishing render with a stainless-steel trowel gauging to the thickness of the aggregate size and finish with a plastic float to the requisite pattern before allowing to dry normally overnight. The spreading rate shall be approximately 12 m²/1.0 mm, 9 m²/1.5 mm, per pail.

▪ StoColor façade paint

It is recommended that all **Stolit K** surfaces receive two (2) coats of **StoColor Maxicryl, or StoColor Dryonic** façade paint tinted to the selected colour and applied by brush and roller at approximately 6-7 m² per litre. One (1) coat is acceptable though it will need recoating more frequently. Refer **Section 8. StoService** for recoating requirements.

Note: Maintain wet edges between cutting in and roll in tight to achieve an even film build.

7. GENERAL NOTES

7.1 Colour

As selected by the client or specifier Stoanz Limited recommends that the selected colour must have a minimum Light Reflectance Value of 25%. Where a colour less than 25% LRV but above 10% is selected, the render system is finished with two coats of **StoColor Dryonic a Sto iQ coating with X-Black technology additive** to avoid thermal stress.

StoColor Dryonic façade paint with Sun blocker and fast dry film biomimetics. is available in the StoColor range, with other colours available depending on formulation.

To register your project with Stoanz Ltd for the warranty and StoService email new specifications to: info@sto.co.nz

Stoanz Ltd | Authorized Distribution Partner of Sto SE and Co KGaA.

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8. STOSERVICE ASSURANCE

8.1 StoService Assurance - Refer to StoService Documents for a guide.

It is the owner's responsibility to clean the Sto System annually by low pressure washing or hosing down to remove surface contaminants with special attention to sheltered areas, as required, use a proprietary house wash sprayed on first with a low-pressure garden spray in accordance with the manufacturer's instructions. The owner is also responsible for organising the maintenance in accordance with the 3-yearly StoService Schedule available online at www.sto.co.nz.

After cleaning, a visual inspection is to be undertaken by the person undertaking the annual maintenance to check for any physical damage or faults in the exterior building elements, to ensure any damage or faults are identified and repaired.

To assist the property owner in establishing a regular maintenance cycle, the property owners email address can be registered with service@sto.co.nz. Stoanz Limited will then provide 2½ yearly reminder notices that the property is due for the 3-yearly StoService.

Depending on the prevailing environmental conditions and the service record, recoating of the paint finish is normally required at the 8-year period where one coat of paint was applied, or 10 to 12½ years where two coats of paint were applied to maintain long-term integrity. This is carried out using a **StoColor Coating System** applied in accordance with a Sto specification. Where a colour change is required, Stoanz Limited should be consulted.

9. WARRANTY

9.1 StoArmat Miral Render System 20-year Warranty with StoService Assurance

When the **StoArmat Miral Render System** is applied in accordance with the Sto specification, Sto details and Sto Quality Assurance schedule a warranty is available to cover the Sto System for twenty (20) years from the date of practical completion, provided maintenance requirements as set out in the StoService documents are followed.

This is to comply with the relevant clauses in the New Zealand Building Code for this type of building element.

The Sto Warranty is supplied by Stoanz Limited to the Sto Contractor who signs off the work on completion of the project. Stoanz Limited confirms the materials supplied have been appraised and are fit for purpose provided that:

- (a) All specified work is carried out by a registered Sto Contractor who must complete the Sto Quality Assurance Schedule, submit the Sto Warranty Request, and sign off the five-year PS3 Workmanship Warranty.
- (b) All work is carried out in accordance with this Specification, or any written amendments issued by Stoanz Limited.
- (c) The warranty does not cover situations where the render system is subjected to damage, physical disturbance, chemical contamination, or interference.
- (d) The substrate under the render finish must be structurally sound. Cracks in the substrate that reflect through the render are not covered by the StoWarranty.

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10. DISCLAIMER

10.1 Disclaimer

The information contained in this specification is based on our findings, experience, testing and certification at the revision date. End users are still responsible for establishing the suitability of the specified products regarding their intended use. No liability is undertaken for use of this information outside of Stoanz Limited parameters or for the substrates, design, construction, and project site conditions that are outside of Stoanz Limited's control. Where a Sto registered contractor applies Stoanz purchased products in accordance with the Sto Specifications, Material Technical Data Sheets and Sto Details, a Sto Material Warranty document is available, but the installation of the materials remains the responsibility of the Sto Contractor who provides the PS3 Warranty. Any warranty is conditional on the system being maintained and serviced in accordance with the StoService documentation. Stoanz reserves the right to alter or update information and formulations at any time without prior notice.