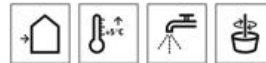


# Sto Specification New Zealand

## SS901R StoColor Maxicryl Exterior Coating System

**StoColor Maxicryl Exterior Coating System**  
 To refurbish existing rendered or coated masonry surfaces



**Sto Registration:** To register your project with Stoanz Ltd please email the completed specification to [info@sto.co.nz](mailto:info@sto.co.nz)

### 1.PROJECT DETAILS

**Specifier:**

**Project and Address:**

**Project Owner:**

**Sto Warranty:** **StoColor Maxicryl Coating System 7 ½ year Warranty with StoService**

**StoColor Maxicryl Exterior Coating System to refurbish existing masonry surfaces.** The specification details the application of the **StoColor Maxicryl Coating System** incorporating: Surface preparation, repairs, sealing of all bare, powdery, or friable surfaces with **Stoplex W** followed by **StoGold** crack addressment before coating in **StoColor Maxicryl façade paint** over the existing painted surfaces.

A **Sto Quality Assurance Document** is to be filled out as a record of the work undertaken by the **Sto Contractor**.

**Existing Surface:** **Existing Coated Masonry Surfaces**

**Sto Registration Number: (Sto Use Only)**  
 i.e. 23.01\_StoReg\_tec\_sales SS901R\_project address

**Project Notes:**

# Sto Specification New Zealand

## SS901R StoColor Maxicryl Exterior Refurbishment

### 2. CONSTRUCTION & DETAILING

#### 2.1 Responsibility

The Sto refurbishment specification addresses the exterior condition of the existing surfaces only and specifically excludes all other building elements. It is the responsibility of the owner or their agent to ensure that all the existing building elements are weathertight, sound, load bearing and free from any defects or contamination. Where there is a possibility of water ingress or structural defects, an appropriate building professional is required to verify the building, elements are still sound before commencing.

#### 2.2 Workmanship and Building Elements

Stoanz Ltd 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 refurbishment works.

#### 2.3 Roofs Fascia's and Decks

All existing roofs, fascia's, and deck membranes adjoining or discharging over the existing wall surfaces should be evaluated to ensure they are still sound and appropriately detailed with proper clearances, flashings, etc. Gutters, rainwater heads, scuppers, overflows are correctly detailed with flashings, drip edges diverters and up stands. Any items overlaying, fixed or adjacent to the walls must be secure, watertight, have the appropriate seals, cover, and drip edges.

#### 2.4 Existing Joinery

All joinery must be watertight. All mitres, drain holes, vents etc. shall be checked to ensure they are working.

Where the joinery is leaking a suitably qualified person shall be engaged to evaluate the joinery to survey / undertake refurbishment work to ensure the window and door joinery mitres, mullions and drainage vents are sound, working and the refurbished joinery is watertight.

#### 2.5 Dissimilar Material Junctions, Flashings and Penetrations

Ensure that all building flashings, dissimilar material joints and penetrations such as pipes and service boxes are checked to verify, they are sound and watertight.

#### 2.6 Existing Building Condition

Where required exterior walls must be investigated by Building Surveyor to ensure they are remediated, and the substrate is satisfactory before proceeding. Where there is evidence substrate failure or moisture ingress (blistering, staining, etc) the source of failure must be identified and the walls remediated before proceeding to ensure the substrate is dry, sound, and load bearing.

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# Sto Specification New Zealand

## SS901R StoColor Maxicryl Exterior Refurbishment

### 3. SURFACE PREPARATION

#### 3.1 Responsibility

All work in these sections shall be the responsibility of the **Sto Contractor**, who shall ensure that they have a Health and Safety policy in place, any legislation requirements have been met and the surfaces are acceptable before commencing. Allow for adequate protection of all dissimilar materials and adjacent surfaces.

#### 3.2 Fixtures and Fittings

All fittings and fixtures on the walls such as downpipes, rainwater heads, gas fittings, service boxes handrails, taps etc. shall be checked to ensure they are secure and watertight. Any fittings that are easily removed should be taken off and refitted securely after the coating is finished. **Note:** Penetrations such as pipes, wiring, security fittings and lights must be appropriately detailed with sealant.

#### 3.3 Existing Exterior Surfaces

All existing wall surfaces must be checked to ensure they are sound, acceptable, and properly detailed before commencing. Delaminating material shall be removed, and the surfaces remediated as required. Where items overlay the wall surfaces, ensure that the surfaces have been adequately detailed to provide watertight junctions.

**Note:** Corroded, damaged, missing, or redundant fixtures or fittings need to be referred to the building owner or their representative for instructions / variation.

#### 3.4 Existing Joinery

Check the joinery and existing perimeter junction sealant is sound. Cut out and replace any faulty sealant work with a compatible sealant.

#### 3.5 Chemical Treatment

All surfaces to be refurbished shall be treated with a chemical solution to remove all moss, mould and any contaminants, including any existing oxidized powdery paint film. The properties for the removal of contaminants can vary depending on the various contaminants that may be present.

- Multipurpose cleaner for buildings
- Ready to use once diluted
- Safe on painted surfaces
- Removes dirt, mould, algae, lichen, oils and general atmospheric contaminants
- pH neutral
- Biodegradable
- Compatible with water pressure cleaners
- Plant friendly

**Note:** Any areas with oil or grease type contaminants on the surface will require a water based solvent cleaner. Ensure the stipulated reaction times are observed before washing off all residue during the cleaning process.

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# SS901R StoColor Maxicryl Exterior Refurbishment

### 3.6 Cleaning

All surfaces to be refurbished shall be water blasted with a commercial 3000 psi (minimum) water blaster with sufficient pressure and volume to remove all residual contaminants or loose, friable material without damaging the substrate, supplemented by hand or mechanical removal of any other loose or friable material. Any coatings that are adhesion impairing, must be removed, or treated to establish a sound, clean, load bearing surface.

**Note:** When cleaning with the water blaster, due care must be taken to avoid any damage to the building elements, dissimilar materials, adjacent surfaces, or water ingress. Generally, the pressure is controlled by the distance (150 – 200 mm from the surface), the fan (20 – 25 degrees), and the pressure and volume of water.

### 3.7 Control Joints

Existing control joints are to be checked and any loose or delaminating seals removed and repaired, as necessary in accordance with the sealant manufacturer's Technical Data Sheets.

### 3.8 Sealant

All new sealant beads associated with the cladding system shall be a compatible **MS Sealant** applied in accordance with the manufacturer's Technical Data Sheets.

### 3.9 Existing Bituminous Coatings

Where there's bituminous coatings present remove all delaminated, loose, friable material back to sound material. Carefully inspect the exposed substrate and surrounding surfaces for any signs of cracking and mark up to be remediated once the exposed bituminous membrane has been sealed with a bituminous membrane primer.

## 4. REFURBISHMENT

### 4.1 General

Appropriate masking must be carried out prior to commencement of any refurbishment work to protect all dissimilar materials and adjacent surfaces. All work shall be in accordance with the Sto specification, Sto Technical Data Sheets, or project specific documents. All surfaces to be refurbished must have been thoroughly cleaned and prepared before commencing.

**Note:** Where walls are extensively damaged or cracked it is recommended that the walls are checked by a Building Surveyor and remediated as required before commencing the coating system.

### 4.2 Spalling Masonry or Drummy Plaster

Check the existing surface (normally audial tapping) to identify any areas of drummy plaster or spalling masonry associated with the exterior and mark-up for removal. Remove the loose areas, diamond cutting around the perimeter as necessary, to stop the plaster delamination spreading. Spalling masonry is to be removed back to a sound load bearing substrate and any exposed reinforcing steel shall be cleaned to remove any corrosion before treating with a corrosion inhibiting mortar applied in two coats. Once dry repack the substrate with Stoanz 805 repair mortar finished with the applicable Sto finishing render to match the surrounding texture, taking care to blend the edges into the existing surface.

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## SS901R StoColor Maxicryl Exterior Refurbishment

### 4.3 Physical Damage

Repair any damaged areas with the appropriate Sto Repair or Basecoat render and leave to dry before finishing with the applicable Stolit finishing render to match the surrounding texture, taking care to blend the edges into the existing surface.

### 4.4 Crack Repairs

To clean dry walls, seal any stable cracks with a coat of **Stoplex W** apply **StoGold Fill** to fill cracks up to 1.25 mm and leave to dry. If required apply a topcoat to level the repair ensuring the surface is feathered into the surrounding surface.

For larger stable cracks **StoArmat F** (fine) **render** can be used and reinforced as required by embedding Sto mesh over the crack. Once dry any visible repairs can be married in with the appropriate Stolit render (**Stolit MP, MP Natural, Milano**).

**Note:** Textured surfaces need to be carefully sponged to ensure the texture is not filled. Alternatively, re-texture to mask any repairs.

### 4.5 Horizontal Concrete Sills, Ledges, etc.

Existing concrete ledges, copings, etc. must have a fall to the exterior (no ponding) and be thoroughly cleaned. Bare surfaces or leaking ledges can be re-built as required to eliminate ponding and shall be treated with **StoFlexyl meshed waterproofing** that is primed with two coats of Sto Putzgrund primer ready for coating or rendering.

### 4.6 Sealant

All existing sealant is to be checked and any defective sealant replaced with a compatible paintable sealant.

### 4.7 Parapets and Balustrades

All cracked or leaking existing parapets, balustrades and wall caps should be flashed or be appropriately detailed with a waterproof membrane (e.g. StoFlexyl meshed waterproofing). Painted masonry surfaces must be checked to ensure they are clean and well coated, especially the caps and backs, and there are no fractures or cracks.

Refurbish all existing flashings by removing any mild corrosion, patch priming with a solvent based galvanised steel primer before applying a full coat of galvanised steel primer to all metal surfaces followed by two coats of solvent based gloss enamel.

**Note:** Any metal flashing that have rusted out are to be replaced with new metal flashings to match the existing.

### 4.8 Foundations

Where there is evidence of rising damp or render delamination, the areas should be examined and a StoFlexyl coat applied to help waterproof the area concerned.

### 4.9 Existing Painted Joinery

Check all exterior joinery, prepare, and remediate as necessary and replace any broken glazed planes. Prepare all surfaces by removing any corrosion, loose putties and sanding back to sound material before priming with a proprietary primer. Allow to dry and re prime before undercoating and finishing in proprietary alkyd or water-based enamel system.

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## SS901R StoColor Maxicryl Exterior Refurbishment

### 4.10 Dissimilar Materials

All dissimilar materials attached or adjacent to the wall surfaces to be painted such as gutters, rainwater heads, flashings, joinery, staircases, decks, timber work, pipes, vents, lights, security fittings, signs, etc. must be sound and secure. Any items that are nominated to be recoated are to be refurbished in an applicable coating system consistent with the original coating (e.g. alkyd or water based enamel system over applicable metal anti-corrosive system).

**The Contractor is required to ensure all the existing remediated surfaces are sound, loadbearing and waterproof before commencing any coating work.**

## 5. STOCOLOR MAXICRYL EXTERIOR COATING SYSTEM

### 5.1 Responsibility

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

### 5.2 Preparation

Check that all the cleaning, preparation, treatment, and remediation of the surfaces to be coated has been completed before commencing.

### 5.3 Materials

Stoanz Ltd supplies all the following materials:

<b>Stoplex W Sealer</b>	<b>StoGold Filler</b>
<b>805 Concrete Repair Mortar</b>	<b>StoFlexyl (meshed)waterproofing</b>
<b>StoColor Maxicryl facade paint</b>	<b>Sto Renders</b>

### 5.4 Sealer

All existing bare / powdery surfaces or repaired areas are to be coated with one (1) coat of **Sto Stoplex W** sealer by brush or roller at a spreading rate of approximately 10-14 m<sup>2</sup> per litre.

Once dry, overcoat with a patch coat of **StoColor Maxicryl façade paint** to ensure the surface profile is married into the surrounding surface so they blend in before commencing the coating system.

### 5.5 StoColor Maxicryl Façade Paint

To clean, dry, prepared wall surfaces that have been repaired and patch coated to marry them into the existing surface apply two (2) full coats of **StoColor Maxicryl** façade paint tinted to the selected colour by brush and Sto roller at a spreading rate of 6-7 m<sup>2</sup> per litre per coat for smooth surfaces, leaving the first coat to dry overnight before applying the second coat.

**Note:** Before applying the topcoat, ensure the refurbished surface requires no intermediate work and maintain wet edges between rolling and brushing to avoid shadow lines.

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### 6. GENERAL

#### 6.1 Colour

As selected by the client or specifier, Stoanz Limited recommends that the selected colour has a minimum Light Reflectance Value (LRV) of 20% or 10% when finished with two coats of **StoColor Dryonic with X-Black technology additive** to avoid thermal stress, especially where bituminous or old coatings are present. Where bituminous coatings are present, the LRV shall be a minimum of 40%.

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

### 7. STOSERVICE ASSURANCE

#### 7.1 StoService - Refer to StoService Document for a comprehensive guide.

The Sto Coating System should be cleaned annually by low pressure washing or hosing down with clean water 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). Refer to StoService Maintenance Documents online [www.sto.co.nz](http://www.sto.co.nz).

After cleaning, a visual inspection is to be undertaken by the owner or the person undertaking the 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](mailto:service@sto.co.nz). Stoanz Limited will then provide 2½ yearly reminder notices that the property is due to be serviced within the following six months.

Depending on the prevailing environmental conditions and the service record, recoating of the paint finish is normally required at 9-12½ years 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.

### 8. WARRANTY

#### 8.1 StoColor Maxicryl Coating System 7½ year Warranty with StoService Assurance

When the **StoColor Maxicryl Coating System** is applied in accordance with the Sto specification, a warranty is available for the Sto System for seven and a half (7½) years from the date of practical completion, provided the maintenance requirements as set out in the StoService documents are followed.

The warranty is supplied by the Sto Contractor on completion of the project with the warranty issued and backed by Stoanz Limited as to the suitability of the material supplied provided that:

- (a) All specified work is carried out by a registered Sto Contractor who must complete and sign off the Sto Quality Assurance Schedule and the five-year PS3 Workmanship Warranty.

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- (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 physical disturbance, chemical spillage, structural stress, or interference.

## 9. DISCLAIMER

### 9.1 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 Workmanship 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.