

S-Protect Specification New Zealand

SS921 S-Protect SC / WS 410 System on Brick & Block Veneer

S-Protect SC Silane Building Protection
on exterior veneer concrete brick or block veneer



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

1. PROJECT DETAILS

Specifier:

Project & Address

Project Owner:

Sto Warranty:

S-Protect SC Silane 7½ -year Warranty with S-Protect Service

S-Protect SC Stay Clean Silane Protection System

This specification details the application of the **S-Protect SC Stay Clean Silane Treatment**, system for concrete surfaces to achieve an invisible protection barrier using **S-Protect WS 410 silane basecoat impregnation treatment** finished in **S-Protect SC hydrophobic treatment** that will keep the surface clean by preventing the adhesion of contaminants that are easily removed naturally by rain or washing in sheltered areas.

S-Protect WS 410 silane treatment – water repellent impregnation for in depth penetration to significantly reduce the uptake of water and soluble salts (chlorides) into the masonry substrate.

Registration Number:
(Stoanz Use Only)

i.e. 23.01_StoReg tec_sales_SS921SC-WS410_project address

Project Notes:

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2. CONSTRUCTION & DETAILING

2.1 Responsibility

All work in this section shall be the responsibility of the Main Contractor, unless previously agreed in writing. Stoanz Limited accepts no responsibility for defective workmanship in relationship to the application of the S-Protect System or defects in the design, construction, or condition of the building, either as built or in relation to the works or site conditions.

The Main Contractor is to ensure that they are fully conversant with legislation requirements, the project specifications, and details, current **S-Protect SC / WS 410** specification and details and any specific installation requirements relating to the Main Contractor's responsibilities before any works commence. The Main Contractor is also responsible for the various subcontractors to ensure that all items relating to weathertightness, penetrations and dissimilar material junctions affecting the construction system are strictly in accordance with project specific details, manufactures instructions and details i.e. items such as joinery openings, lights and security fittings, fire equipment, electrical wiring, flashings, deck membranes, dissimilar junctions etc. that abut, flash or penetrate the **S- Protect System**. The Main Contractor shall also ensure that all exterior work is undertaken by a registered S-Protect Contractor and LBP registered contractors and the window and door joinery is installed in accordance with the project drawings, manufactures details and S-Protect joinery details. Surfaces should be in accordance with MBIE Guide to Tolerances.

A Quality Assurance Document is to be submitted by the Brick / Block layer and **S-Protect Assurance Document** is filled out as a record of the work undertaken by the **S-Protect Contractor**.

2.2 Surfaces Preparation

All concrete brick and block surfaces to be treated must be clean, sound and load bearing, as necessary check all; dissimilar material junctions, sealant joints, joinery connections and all masonry work is sound and load bearing. Make sure any repairs required to concrete surfaces, elements or cracks has been completed and ensure any adhesion impairing agents such as curing compound etc have been removed.

2.3 Limitations

The **S-Protect Silane System** is a protection treatment system for masonry wall surfaces that works by repelling liquid water while providing good vapour permeability. The system is not suitable for waterproofing masonry surfaces such as concrete horizontal decks or sloping roof surfaces that require a membrane.

2.4 Brick or Block Veneer Construction

The brick or block veneer is to be constructed by licensed LBP contractor and constructed in accordance with the relevant NZ standards and E2/AS1 Masonry Veneer acceptable solution or a BRANZ Appraised alternative solution with sills blocks at a minimum 15 degrees fall.

2.5 Existing Concrete Brick or Block Veneer Surfaces

Any existing surfaces to be refurbished shall be treated with a chemical solution to remove any fungal activity and other contaminates present ensuring the stipulated treatment times are observed before removing.

All existing surfaces to be refurbished shall be pressure water cleaned to remove all contaminates and debris supplemented by physically or chemically removing debris to establish a clean sound substrate.

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Note: When cleaning due care must be taken to avoid the surface, other building elements or adjacent surfaces being damaged from excessive chemical use, water pressure or water ingress. The cleaning is undertaken to remove contaminants and any fungal activity avoid any aggressive cleaning that can leave the surface with streaky or patchy cleaning marks that will show up in the finished surface.

2.6 Control of External Fire

The exterior surface finish requirements of NZBC Acceptable Solution C/AS1 Table 5.1 and C/AS2 Paragraph 5.8.1 do not apply as the S- Protect treatment has no film build.

3. SURFACE PREPARATION

3.1 Responsibility

All work in this section shall be the responsibility of the Main Contractor or his sub-contractors with the Sto Contractor responsible for the S-Protect detailing unless otherwise expressly agreed.

3.2 New Aluminium joinery

Brick joinery should be positioned with a 20 mm overlap over the brick rebates that have been coated sealed by filling any holes in the rebates and apply two coats of **S-Protect WS 410** ensuring the product does not run down the exterior surface which can lead to streaking. Install joinery with proprietary joinery head flashing and a 5.0 mm gap at jambs and sill sealing the joinery jambs with MS sealant then forms a primary seal while the **sill** is left open with a 5.0 mm drainage gap. To complete the waterproofing process **air seals** are required to be installed around all interior joinery to rebate openings.

Block joinery openings should be formed using rebated blocks or a 20 mm fibre cement sheet rebate installed, StoFlexly waterproofed with the sill meshed and the rebate rendered or coated using Sto Putzgrund as a primer.

Note: Air seals and all sealant work is the responsibility of the window installer.

3.3 Sealant

All sealant junctions between the precast and adjacent surfaces or dissimilar materials shall be jointed with compatible **MS Sealant** applied in accordance with the manufacturer's TDS sheets.

3.4 Detailing

All details must be in accordance with the project drawings or S-Protect details

3.5 Penetrations

Penetrations such as waste pipes and fixtures shall be adequately flashed and waterproofed prior to the installation.

Note: All penetrations through the surface must be adequately sealed with MS Sealant applied as a minimum 6.0 mm sealant bead using PEF backing rod or Sto joint seal tape. Any electrical wiring that penetrates the system shall be in cased in appropriately sized uPVC conduit installed at a minimum 5° downwards rake.

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4. S-PROTECT SC / WS410 SILANE TREATMENT

4.1 Responsibility

All work in this section is the responsibility of the **S-Protect Contractor** who shall ensure that the surfaces are acceptable before commencing and that adequate protection of all dissimilar materials and adjacent surfaces has been undertaken to manage any spills, splashes, or spray contaminating adjacent surfaces.

4.2 General

All work in this section shall be the responsibility of the **S-Protect Contractor** Ensure dissimilar materials and all glazing elements are well masked off with plastic when applying S-Protect treatment to avoid contaminating the glazing or adjacent surfaces.

When sealing the masonry veneer include the weep holes, vents and under concealed surfaces such a flashing etc to avoid water penetrating the masonry veneer.

Note: Silane treatments are hydrophobic any spills or seepage will impart the stay dry properties to adjacent surfaces (paths, decks, timber, etc) that show up when wet and normally cannot be removed.

4.3 Materials

Primer: S-Protect WS410 basecoat silane impregnation treatment

Finish: S-Protect SC stay clean silane hydrophobic treatment

4.4 S-Protect WS 410 hydrophobic silane impregnation treatment

To clean dry surfaces, apply one double wet flood coat of **S-Protect WS410 silane treatment** at 3 - 6 square metres per litre depending on porosity of the surface in a wet flowing film (3 – 5 seconds) by Silane pump or low-pressure sprayer all in accordance with the S-Protect WS 410 TDS sheet.

Note: The S-Protect WS 410 treated surfaces must be left five (5) days to fully catalyse before proceeding with the **S-Protect SC stay clean treatment**.

Note: A airless sprayer can used but atomisation at the tip must be avoided.

Ensure you block brush any lingering surplus material into the substrate as you go to avoid it streaking / spotting the surface. And leave to **catalyse for a minimum 5 days** before proceeding with the **S-Protect SC stay clean treatment**

4.5 S-Protect SC stay clean silane treatment

To clean dry prepared, **S-Protect WS 410** treated surfaces, apply an even double wet saturation coat of **S-Protect SC stay clean** at 4 - 6 square metres per litre (depending on the substrate porosity) with HVLP or low-pressure sprayer or brush and roller for small areas working from the ground up in one continuous and uninterrupted application using a block brush to dispel any lingering droplets all in accordance with the TDS Sheets. Once dry check the surface and if necessary, apply a second coat using a block brush to disperse any droplets.

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Note: S-Protect SC can leave a residue if left to pool on the surface ensure any residue is polished into the surface after 15 minutes and all exposed and adjacent surfaces including glass must be masked off to avoid any contamination.

Prevent the product running down the surface by using a block brush to disperse as runs can leave streaking.

5. GENERAL NOTES

5.1 Colour

S-Protect SC is an invisible clear silane treatment that seals the surface consequently the area to be treated must be clean and visually acceptable before commencing.

6. S-PROTECT SERVICE

6.1 S-Protect Service

The S-Protect System should be cleaned 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).

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 to be serviced within the following six months.

When recoating is required at the 5 to 10-year period (depending on the environment) to maintain long-term integrity this is carried out using **S-Protect SC stay clean** over a cleaned surface.

7. WARRANTY

7.1 S-Protect SC stay clean treatment on Block or Brick Veneer - 7 ½ -year Warranty

When the **S-Protect SC stay clean Block or Brick Veneer treatment** is applied in accordance with the specification and details a S-Protect PS3 Quality Assurance schedule a warranty is available for the S-Protect System for seven and half (7½) years from the date of practical completion. This is to comply with the relevant clauses in the New Zealand Building Code for this type of building element provided maintenance requirements as set out in the StoService documents are followed.

The warranty is supplied by the S-Protect 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 S-Protect 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 S-Protect system is subjected to physical disturbance, chemical contamination, structural movement, or interference.

8. DISCLAIMER

8.1 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 Specifications, Material Technical Data Sheets and Details, a Stoanz Material Warranty document is available, but the installation of the materials remains the responsibility of the Contractor who provides the PS3 Warranty. Any warranty is conditional on the system being maintained and serviced in accordance with the Service documentation. Stoanz reserves the right to alter or update information and formulations at any time without prior notice.

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