



StoClear Coating Systems
Clear Coating Systems for
Concrete Construction

StoClear Coating Systems

Protecting masonry construction designed to be seen

Growth on a solid foundation

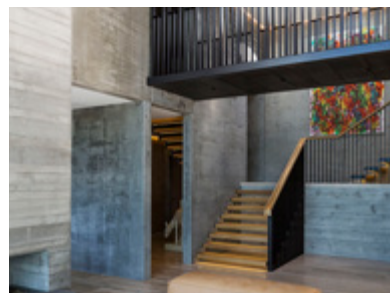
The range has been thoroughly researched and developed in Europe to meet the demands of minimalistic architecture that highlights natural masonry surfaces. The focus is on quality, suitability and longevity using a combination of Silane and Clear Coating Technology to protect natural masonry surfaces.

S-Protect Silanes take us into the complex field of building protection using invisible treatments that penetrate to provide durability and resistance to masonry surfaces without having adverse effects on the function or changes in the aesthetics of the building materials.

StoProtect Clear Coatings have been developed to protect and waterproof masonry surfaces that are naturally porous by filling the pores and voids with a clear elastomeric film to repel rain driven water. In combination or separately the perfect solution for almost every masonry requirement can be realized - a solution which makes successful long-term protection possible.

People and architecture, Sto provides the link

Architecture plays an important role in our lives. It lends urban and rural landscapes character, and should ideally be embedded in an intact environment. For us, "Building with conscience" means enhancing functionality and aesthetics on a sustainable basis and creating an environment in which people feel at one with their surroundings. Apart from researching, developing and marketing Sto products, systems and services, we also attach great importance to optimising the value added process for trades people, architects and building owners alike.





We respect the interests of people and nature at all times

In order to define and implement its ecological targets, Sto has developed a system of environmental management conforming to international standards. This relates to the entire process chain - from the procurement of the raw product, to production, packaging and logistics. Sto make a clear contribution towards improving and preserving the quality of the environment.



A Global Success Story

Sto as a brand has gained an excellent reputation in the field of building protection. Exceptional product performance, reliable service, quantifiable returns, and long-term results are the basis of our success.

StoProtect as a system for masonry block has outperformed many other clear coatings in New Zealand and now that clear coatings are required to comply to CCANZ CP 01: 2014. The number of competitors with complaint products backed by warranties has shrunk.

S-Protect Systems are designed to protect a wide range of solid masonry materials such as precast and in situ concrete as well as historic buildings. The Sydney Opera House, the Louvre in Paris and the Hang-zhou Bay Bridge (longest bridge in the world - China), Novotel Auckland Airport are just a few projects. Not all of our success is that visible to the public, but all treatments have one object in common: Benefits exceed costs.

StoClear Coating Systems

Weathertight solutions

Protecting Your Assets

StoClear Coating Systems can be used to further protect and enhance the water repellent properties of weathertight concrete. Weathertight in-situ and precast concrete must meet the specific design criteria of CCANZ CP 01:2014 Section 4.5 as follows:

- Have a minimum strength of 30MPa after 28 days
- Have a water/ cementitious ratio no greater than 0.50 by weight
- Be designed and constructed in accordance with CCANZ CP 01:2014 Section 2.1, 3.3 and 3.4
- Be designed to prevent cracking during handling, and shrinkage in service



The invasive nature of moisture can be detrimental to concrete by allowing water and dissolved contaminants to penetrate through the pores and shrinkage fractures resulting in initial problems such as interior dampness or water ingress that can escalate to corrosion of the reinforcing steel, salt burst, or freeze-thaw damage. By preventing water ingress the longevity of the concrete is protected and expensive renovation work is avoided.



StoFlexyl Waterproof Membrane System

Manufactured in Germany and versatile in use: StoFlexyl is recommended for waterproofing around window and door openings, building cappings, foundations and below ground level work.

StoFlexyl waterproofing has been tested and evaluated by BRANZ to meet AS/NZ 4858 as a waterproof membrane as required for E2/AS1 & CCANZ CP:01.



S-Protect water repellent products are used to treat dense concrete such as precast or veneer masonry brick providing a water repellent barrier to liquid water while maintaining the concrete's natural vapour permeability. The S-Protect Silane molecules are particularly small in comparison to other treatments and with a low viscosity but high concentration of active ingredients penetrate deeply into the concrete substrate rendering it hydrophobic.

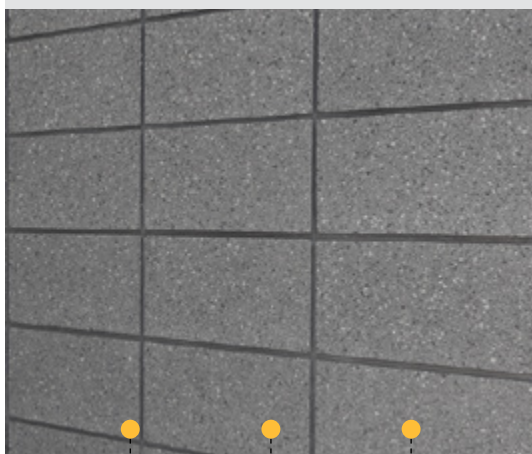
This deep penetration also provides protection against UV light degradation and mechanical wear that often destroy other treatments such as Silicones and Siloxanes based solutions that do not penetrate as deeply and are often weakened by environmental stress after a few years.

StoProtect is formulated for concrete masonry blocks as a film-forming clear coating to coat the porous block faces and mortar joints to provide an elastomeric coating system to resist mortar joint fractures that can occur during the block curing process especially on stack bonded blocks.

StoClear Coating Systems

Natural concrete protection

StoProtect Clear Coating System for Masonry Block



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Perfect interaction

1 Architectural & Natural Concrete Block Construction

Clean, dry & stable masonry concrete block surfaces.

2 S-Protect WS405

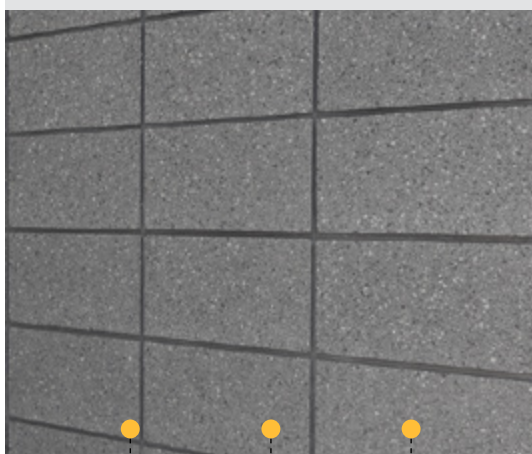
European manufactured water repellent silane sealer.

3 StoProtect Transparent

European manufactured durable, UV resistant waterproof coating.

- Compliant with CCANZ CP 01:2014.
- Waterproof coating.
- Natural finish.
- Easy to maintain.
- 7½ Year StoWarranty with StoService Assurance.

StoProtect Clear Coating System for Masonry Block (Wet look)



1



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Perfect interaction

1 Architectural & Natural Concrete Block Construction

Clean, dry & stable masonry concrete block surfaces.

2 StoPur WV100

European manufactured water-based polyurethane sealer.

3 StoProtect Transparent

European manufactured durable, UV resistant waterproof coating.

- Compliant with CCANZ CP 01:2014
- Waterproof Coating
- Natural Finish
- Easy to maintain
- 7½ Year StoWarranty with StoService Assurance.

S-Protect Silane System for Masonry Block Veneer (Invisible look)



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Perfect interaction

1 Architectural Block Veneer Construction

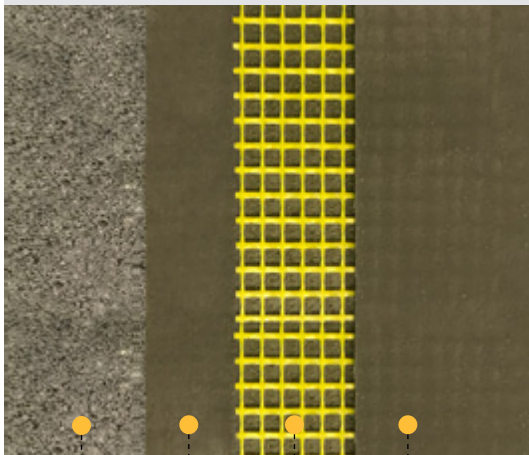
Clean, dry & stable masonry concrete surfaces.

2 S-Protect SC Clear Sealer

European manufactured invisible silane treatment to repel liquid and water immediately with most contaminants washing off naturally.

- Highly reactive with masonry surfaces.
- Invisible stay dry treatment.
- Naturally self cleaning.
- 7½ Year StoWarranty with StoService Assurance.

StoFlexyl Waterproof Membrane System



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Perfect interaction

1 Masonry Construction

Clean, dry & stable masonry concrete surfaces

2 StoFlexyl

An organic, flexible, highly waterproof membrane coating (mixed with cement).

3 Sto Glass Fibre Mesh

Easy to install, meets the highest requirements for crack, stress and alkalinity resistance.

- Waterproof membrane for window and door openings, building cappings, foundations and below ground level work.
- Evaluated by BRANZ to meet AS/NZ 4858 as a waterproof membrane as required for E2/AS1 & CCANZ CP:01.

Note:

StoPur WV 200 transparent coating system, a transparent waterborne polyurethane resin coating for concrete construction, is available on request.

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