



## **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.



### **S-Protect. 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 with 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

The use of watertight concrete which is impervious to the passage of water necessitates specific design criteria - CCANZ CP 01: 2014 requires;

- Concrete must comply with NZS 3104 Clause 2. 10.2
- Minimum strength of 50MPa after 28 days
- With a water/ cementitious ratio less than 0.50 by weight
- Have a permeability reducing admix as per AS 1478.1 Appendix F
- Be designed to prevent cracking in service
- Must pass an AVPV test on hardened concrete in accordance with section CC ANZ CP 01: 2014 4.5.1.



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.





**S-Protect** water repellent products are used to treat dense concrete such as precast providing a water repellent barrier to liquid water while maintaining the concrete's natural vapour permeability. The S-Protect BHN 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.

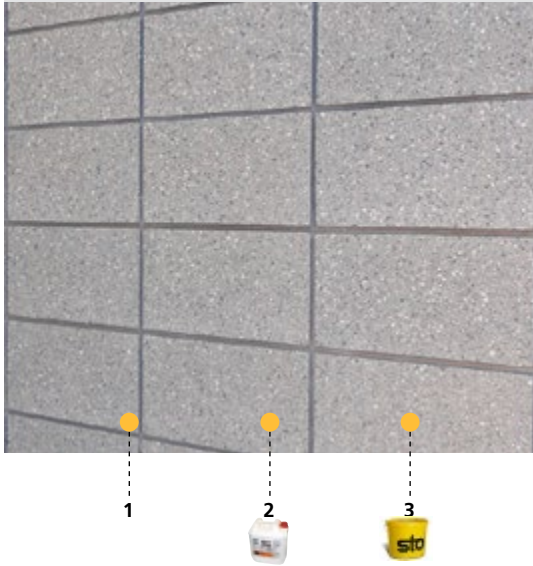
**S-Protect Anti-Graffiti Silane System** An invisible treatment for masonry surfaces using a concentrated formula that provides an hydrophobic and oleophobic surface to protect against atmospheric pollutants and guard against graffiti by preventing the adhesion to the surface and removal by using S-Protect Graffiti Cleaner.

**Note:** Graffiti can be more difficult to remove from open or textured surfaces. Finished surfaces will repel water but are water vapour permeable (breathable) that prevents any surface film fogging.

# StoClear Coating Systems

Natural concrete protection.

## StoProtect Clear Coating System for Concrete Blocks

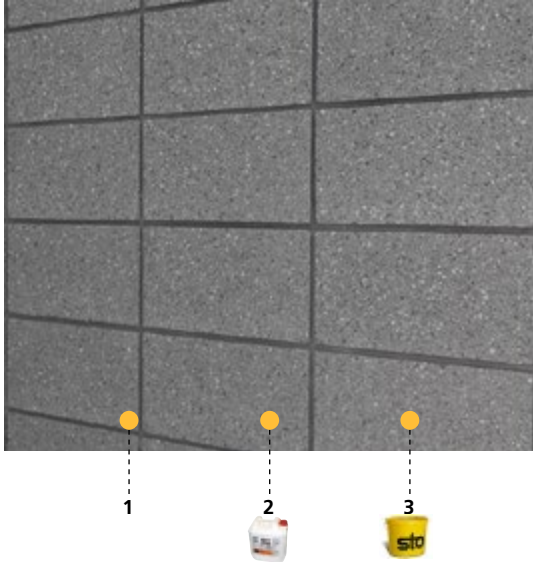


**Perfect interaction**

- 1 Architectural & Natural Concrete Block Construction**  
Clean, dry and 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
- Ten Year Warranty

## StoProtect Clear Coating System for Concrete & Brick Veneer

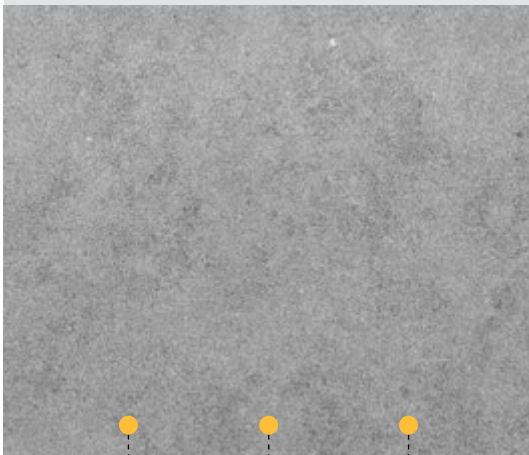


**Perfect interaction**

- 1 Architectural Concrete & Brick Veneer Construction**  
Clean, dry and stable masonry concrete 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
- Ten Year Warranty

## S-Protect Silane Protection for Precast, In situ Concrete & Brick Construction



### Perfect interaction

#### 1 Concrete Precast, Tilt Panel or In situ and Masonry Brick

Clean, dry and stable concrete and masonry surfaces.

#### 2 S-Protect BHN

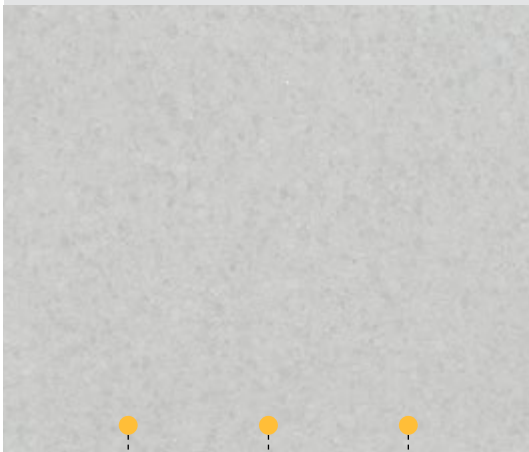
European invisible water repellent, impregnation silane treatment with 98% concentration of active ingredients.

#### 3 S-Protect SC Stay Clean

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

- Highly reactive with masonry surfaces
- Invisible stay dry treatment
- Hairline fracture protection
- Naturally self cleaning
- Five Year Warranty

## S-Protect Anti-Graffiti Silane System



### Perfect interaction

#### 1 Concrete Precast, Tilt Panel or In situ and Masonry Brick

Clean, dry and stable surfaces.

#### 2 S-Protect Anti-Graffiti Coating

Durable reactive Anti-Graffiti invisible silane treatment.

#### 3 S-Protect Sensitive and Hi Strength Cleaners

- Natural Finish
- Keeps surfaces clean
- Easy to maintain

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