



## STOPUR WV 200 TRANSPARENT SYSTEM SPECIFICATION OVER REINFORCED INSITU & PRECAST CONCRETE CONSTRUCTION

Sto ACAD Details [www.sto.co.nz](http://www.sto.co.nz) building with Sto

**Project:**

**Prepared for:**

### **StoPur WV 200 Transparent Coating System**

This specification is written to cover the application of a clear coating system over exterior insitu & precast concrete construction incorporating; **S-Protect BHN Silane sealer** finished in two coats of **StoPur WV 200 transparent** to leave a durable clear finish.

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## 1. CONSTRUCTION

### **Responsibility**

All work in this section shall be the responsibility of the Main Contractor. The specifier must be advised of any anomalies and approve of any such details prior to work commencing.

### **Concrete Construction**

The concrete construction including reinforcement, concrete and placement is to comply with the relevant New Zealand Standards, project specifications & drawings. In particular the walls shall be finished as specified and laid true in both vertical and horizontal planes with all joinery and services cutouts correctly made. Sufficient time shall be allowed after concrete placement as per AS/NZS 2311:2000, for curing and stabilization to take place, before application of the Sto Coating System All maximum tolerances shall be in strict accordance with NZS 4210: 2001 2.7.1.4 Table 2.2, no more than 3mm surface alignment deviation over a 1200mm radius. All surfaces must be clean with any concrete splatter, slurry or surface contaminates carefully removed. The main contractor shall ensure **any areas, details or flashings above or adjacent to the Sto Coating System have been adequately waterproofed to avoid any water migration behind the Sto Coating System**. All dissimilar junctions are to be secure and waterproof, Control Joints must be formed in accordance with project details and rebated openings and penetrations must be waterproofed especially joinery openings.

**Note: maximum moisture content is 18% before the BHN Silane treatment .**

### **Cleaning – Visual Presentation**

All surfaces to be coated must be clean and visually acceptable. It is the responsibility of the main contractor to ensure a clean unified surface is achieved with an acceptable continuity of faces if the walls are defective, stained, discoloured or damaged the client must be advised and accept the surfaces before the coating applicator commences. Note: The coating system is transparent therefore it is essential to ensure that the walls have been **left clean with no marks, stains, dirt, slurry, or damage and that the continuity of colour is acceptable to the client**. Any repairs or specialist cleaning required **must** be undertaken before the Sto Coating Contractor commences.

## 2. PREPARATION

### Joinery

Joinery is normally fixed over rebated reveals that have been coated. This is normally achieved by the application of two coats of **StoPur WV 200 transparent** before the window is installed. The window is then installed in accordance with the project details incorporating air seals and head & jamb weather tight detailing while the sill is left open with a 5mm drainage gap in accordance with E2/AS3 principals.

**Note:** The weather tightness of the joinery ,air seals and MS Sealant joints is the responsibility of the nominated joinery installer.

## 3. STOPUR WV 200 TRANSPARENT SYSTEM

All work in this section shall be the responsibility of the Sto Coating Contractor who must check the surface and clean off any dirt or construction dust that could affect the coating adhesion.

### Transparent Coating Procedure

Before commencing **ensure the wall surfaces are clean, any jointing is tight and any flashings, timber overlays, parapets or joinery rebates are waterproofed.** Though the coatings are transparent appropriate masking must be undertaken to protect adjacent surfaces from splashes etc.

**Note: S-Protect BHN** Silane will not etch glass but leaves a film that can be difficult to remove once it dries.

### S-Protect BHN Silane treatment

To clean dry surfaces apply in one (1) flood coat of **S-Protect BHN Silane** at 5 - 6 square metres per litre (150ml sqm) depending on porosity of the surface being treated applied with a low-pressure garden sprayer and block brush.. **Note:** Once dry the **S-Protect BHN** treated surfaces must be **left five (5) days to fully catalyze** before applying the coating. **S-Protect BHN** must be applied in accordance with the TDS Sheets.

### StoPur WV 200 Transparent

To clean dry concrete walls pre treated with **S-Protect BHN** apply two (2) coats of **StoPur WV 200 Transparent** carefully mixed by adding component B with A and mixing together, re pot in to a clean container and thin the first coat by adding 1 litre of clean fresh water before applying a full coat by brush and roller at approximately 8 -10 square metres per litre. Once dry apply the second coat un thinned at approximately 8 -10 square metres maintaining wet edges to prevent shadow lines especially between cutting in and roller applications. Ensure the surface is well coated and that any flashings etc have been coated behind. Depending on the surface profile adjust the spreading rate accordantly, spray gun application is not recommended as the surface must be well coated with the coating worked into any voids or holes..

**Note:** The spreading rates are based on a **smooth surface** allowances must be made for other surfaces depending on there porosity and profile.

**4. MAINTENANCE**

**Refer; Sto Maintenance Schedule for comprehensive guide**

The **StoPur WV 200 Transparent System** should be cleaned annually by low pressure chemical washing to remove all surface contaminants with special attention to non-rain washed areas. If recoating is required at the seven to eight year period to maintain long-term integrity and a pristine condition, this can be carried out using **StoPur WV 200 transparent** over a cleaned surface.

Annual inspections are to be implemented after completion to clearly identify any defects; sealant beads, flashings and any other connections must also be checked. A repair process must be implemented immediately to address any faults discovered so the warranty is not compromised.

**5. WARRANTY**

The **StoPur WV 200 Transparent System** described in this specification is warranted for a period of five (5) years from the date of practical completion to comply with the NZBC requirements for a coating element provided the system has been installed over a correctly detailed concrete substrate and normal maintenance requirements as set out in the Sto Maintenance Schedule are followed.

A five (5) year workmanship warranty is issued by the **Sto Contractor** carrying out the work, and is backed by the Manufacturer as to the suitability for use of the material supplied, provided that.

- (a) The approved Contractor who must adequately complete the Sto QA Compliance Procedure Form and PS3 Workmanship Warranty carries out all specified work.
- (b) All work is carried out in accordance with this specification or any written amendments thereto issued by Stoanz Limited.
- (c) The warranty does not cover situations where the coating system is subjected to physical disturbance, chemical spillage or interference.



The information contained in this Specification is based on our experience and testing and represents the latest information available at the date of production. No responsibility is taken for uses to which this information may be put, but we advise that where application of products and processes is in complete conformity with this specification an appropriate warranty is available. We reserve the right to alter or update information parameters and formulations at any time without prior notice.