

Class 1

Building Product Information Sheet

Product Name

AQUELLUX S

Product description and its intended use

AQUELLUX S is a state of the art siloxane water repellent which is used to make porous building materials water repellent without changing their appearance.

When applied to a surface AQUELLUX S typically penetrates to a depth of between 2 and 5 millimetres. AQUELLUX S then reacts with atmospheric humidity to form a solid tack free resin which lines, without blocking, the pores and capillaries within the surface structure. Water absorption into the building material is stopped or greatly reduced while moisture within the material is still able to evaporate out. AQUELLUX S has excellent alkali and U.V. resistance.

AQUELLUX S is used to treat vertical and inclined exterior surfaces such as walls and roofs to make them water repellent without changing their appearance. Materials suitable for treatment with AQUELLUX S include concrete, cement plaster, blockwork, bricks, roofing tiles, fibrous cement, and natural stone.

AQUELLUX S also helps protect against the following:

Leakage and dampness. Spalling due to frost or freezing. Efflorescence and leaching of salts. Penetration of dirt, rust etc. Growth of moss lichen and mildew.

Product identifier (if applicable):

Product is identified by name: AQUELLUX S

Place of manufacture

New Zealand

Legal and trading name of the manufacturer(s):

Stratmore Construction Solutions Limited

Legal and trading name of the importer (if applicable):

Address for service:

STREET NAME	185 Rata Street	SUBURB	Naenae
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CITY, COUNTRY	Lower Hutt New Zealand	POSTCODE	5011
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Website:	www.stratmore.co.nz
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Email address:	info@stratmore.co.nz
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Phone No. (if applicable):	+64 4 567 8436
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NZBN (if applicable):	9429040948867
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Relevant Building Code clauses:

B2 Durability: Performance clauses B2.3.1(c)
E2 External Moisture: Performance clause E2.3.2 and E2.3.3
F2 Hazardous Building Materials: Performance clause F2.3.1

Statement on how the building product is expected to contribute to compliance:

AQUELLUX S, specified and installed in accordance with the technical data sheets and the application instructions, will meet (or assist in meeting) the following provisions (clauses) of the New Zealand Building Code:

B2 Durability: Performance B2.3.1c (5 years)

AQUELLUX S complies with the requirements of B2 Durability sub clause c 5 years: the building element is a renewable protective coating. Product application over the past 25 years in New Zealand has shown water repellency performance exceeding 15 years.

Compliance is shown by the following report:

- Bureau Veritas – silicone test, section 5: Behaviour test with standard climatic cycles

The active ingredient of AQUELLUX S is highly stable on alkaline substrates such as concrete which ensures that the silicone system is not water soluble and cannot be leached out over time. Therefore, water repellency effectiveness is long-lasting.

E2 External Moisture: Performance E2.3.2 and E2.3.3

AQUELLUX S when applied to concrete substrates listed under section 4.5 of the CCANZ CP 01 in accordance with the application instructions meets the requirements of clauses E2.3.2 and E2.3.3 per E2 AS/3 (CCANZ CP 01) of the NZBC.

Compliance with CCANZ CP 01 is achieved by imparting long-term water repellency to the concrete substrate that significantly reduces capillary water uptake and does not lessen water-vapour permeability. Weathertightness performance of the substrate is significantly improved.

Compliance is shown by the following report:

- Bureau Veritas – silicone test, sections 3, 6 & 7 (results as summarised below)

Section 3: Water Vapour Permeability Test. The results show that an application of AQUELLUX S only slightly reduces the water vapour permeability of the substrate and therefore will not block the passage of water vapour.

Section 6: Capillary Water Absorption Test. The results show that the treated substrate capillary water absorption is a fraction of the untreated control.

Section 7: Liquid Water Permeability Test: The results show that water absorption of the treated substrate is significantly reduced compared to the untreated control.

F2 Hazardous Building Materials: Performance F2.3.1

Once completely dry, AQUELLUX S meets this requirement and will not present a health hazard to people. The product is chemically bonded to the substrate and does not form a film or coating.

Limitations on the use of the building product:

AQUELLUX S is not suitable as a stand-alone application to highly porous substrates that require compliance with CCANZ CP 01 (including concrete blocks). For these substrates, the CONCRETE BLOCK SEALER SYSTEM or PROTECTA-COAT is used. AQUELLUX S is not suitable for any below grade application, tanking application or as a waterproof membrane. AQUELLUX S is not suitable for application to horizontal substrates. Use of the product is per the technical data sheet and supporting documentation.

Design requirements that would support the use of the building product:

Design of the substrate to which AQUELLUX S is to be applied needs to comply with the relevant NZ building standards including NZS3101 and 3109 for concrete structures and NZS4229 or NZS4230 for masonry concrete construction (where applicable in accordance with the application requirements.)

Installation requirements:

AQUELLUX S must be applied in accordance with the technical data sheet and any other supporting data applicable for the project or specific substrate. For technical Data (visit <https://www.fbsltd.co.nz/product-technical-datasheets-support-material>).

Maintenance Requirements:

No maintenance is required for AQUELLUX S. For proper performance, treated substrates should be maintained in accordance with standard building maintenance procedures including regular cleaning of the substrate to remove build-up of dirt and other contaminants.

Is the building product/building product line subject to warning or ban under section 26?:

Yes

No

If yes, description of the warning or ban under section 26:

Date: 18 August 2023