

# WATER REPELLENT FOR MINERAL BUILDING MATERIALS

# AQUELLUX S

## TECHNICAL DATA

### 1.0 DESCRIPTION

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.

The active component used in the manufacture of AQUELLUX S is made by a world leader in water repellent technology. Siloxane water repellents are used to protect all motorway bridges in Sweden from damage caused by salt and freezing weather in the European winter; as well as being used to protect many of the important historical buildings throughout Europe and the U.S.A.

AQUELLUX S is in widespread use throughout New Zealand.

AQUELLUX S has many performance characteristics superior to commonly used silicone, silicate and silane based materials.

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. In normal circumstances a treated surface will remain water resistant for more than 10 years.

### 2.0 PHYSICAL PROPERTIES:

2.1 Colour	Transparent Liquid
2.2 Specific Gravity	0.8.
2.3 Flashpoint	36° C Flammable.
2.4 Viscosity	Low.
2.5 Toxicity	Harmful substance — Contains White Spirit. Non-toxic when dry.
2.6 D.G. Classification	3.1C
2.7 Shelf Life	2 years in sealed containers.
2.8 Coverage	See section 4.4.

### 3.0 USES

- 3.1 AQUELLUX S is used to treat vertical and inclined surfaces such as walls and roofs. AQUELLUX S is capable of bridging hairline cracks up to 0.3mm wide.
- 3.2 Materials suitable for treatment with AQUELLUX S include concrete, cement plaster, blockwork, bricks, roofing tiles, cement asbestos and fibrous cement, GRC panels and natural stone.
- 3.3 AQUELLUX S is applied to surfaces for protection from 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.
  - Corrosion due to waterborne chemicals.
  - Reduced thermal insulation due to dampness.
  - Surface degradation due to dirt and soiling.



*Fraser Brown & Stratmore Ltd*

Address: 185 Rata Street, PO Box 35136 Naenae, Lower Hutt, New Zealand

Telephone: 04 567 8436 Freephone: 0800 835 699 Facsimile: 04 567 7232 Freefax: 0800 FIBRES (342 737)

Website: [www.fbsltd.co.nz](http://www.fbsltd.co.nz)

Email: [info@fbsltd.co.nz](mailto:info@fbsltd.co.nz)

The information contained in this data sheet, is to the best of our current knowledge, true and accurate, but any recommendations or suggestions which may be made are without liability on our part, since the conditions of use are beyond our control. Buyers and users are urged to make their own assessment of our products under their own conditions and for their own requirements. Fraser Brown & Stratmore Ltd reserves the right to alter formulations without notice. Properties as stated were determined under controlled laboratory conditions.



FBS 4051000

# AQUELLUX S

---

## TECHNICAL DATA Continued

---

- 3.4 AQUELLUX S is not generally suitable for use on surfaces exposed to water pressure such as tank walls and horizontal surfaces subject to ponding, excessively porous surfaces, and previously painted surfaces.
- 3.5 AQUELLUX S can be used as a primer for waterbased paints on porous surfaces. Consult manufacturer for details.

### 4.0 APPLICATION

- 4.1 The surfaces to be treated must be free of dust, dirt, efflorescence, moss, lichen and any other material which is likely to prevent or reduce penetration of AQUELLUX S into the surface. Previously painted surfaces are unsuitable for treatment unless the coating can be completely removed to permit absorption.
- 4.2 Freshly poured concrete should be left for 6 weeks before application.
- 4.3 The surface should be as dry as possible to permit maximum penetration. Some dampness can be tolerated but will reduce penetration and therefore the life expectancy of the treatment. If AQUELLUX S must be applied to a damp surface it is advisable to repeat the application a second time after the surface has dried out.
- 4.4 AQUELLUX S should be applied in two applications, the second being applied as soon as the first has been absorbed i.e., when the surface is no longer glossy. Coverage depends on the substrate and its absorbency. As a guide concrete blocks and porous stone: 1m<sup>2</sup>/lt, normal concrete: 2 – 3m<sup>2</sup>/lt, dense concrete and brick up to 6m<sup>2</sup>/lt.
- 4.5 Large areas are best treated using spray equipment. Use low spraying pressure so AQUELLUX S is applied in the form of droplets rather than a mist. Starting from the top of a surface, AQUELLUX S is best applied in vertical sections the width of which is determined by the reach of the applicator. AQUELLUX S is applied until the surface being treated will absorb no more. Moving the spray nozzle from side to side work down the surface following about 50mm behind the excess AQUELLUX S as it floods down the surface. Ensure an overlap is obtained between vertical sections.
- 4.6 Smaller areas or walls with many windows can be treated by brush or roller. It is harder to get adequate penetration using brush or roller so particular care should be taken to ensure sufficient AQUELLUX S is applied.
- 4.7 Freshly impregnated surfaces should be protected from rain for 4 – 5 hours by which time they will have become water repellent.
- 4.8 Protect windows (including vehicles parked in the vicinity if spraying), plants and any solvent sensitive materials and remove any splashes immediately.
- 4.9 Silicone rubber, polysulphide and polyurethane joint sealants may swell slightly on contact with AQUELLUX S. This swelling is only temporary however and the sealant will revert to its original shape when the solvent in AQUELLUX S evaporates. Sealants can be satisfactorily applied to surfaces treated with AQUELLUX S.

### 5.0 PACKAGING

1,4, 20 and 210 litres.

Refer to Material Safety Data Sheet for handling and first aid information.



*Fraser Brown & Stratmore Ltd*

Address: 185 Rata Street, PO Box 35136 Naenae, Lower Hutt, New Zealand

Telephone: 04 567 8436 Freephone: 0800 835 699 Facsimile: 04 567 7232 Freefax: 0800 FIBRES (342 737)

Website: [www.fbsltd.co.nz](http://www.fbsltd.co.nz)

Email: [info@fbsltd.co.nz](mailto:info@fbsltd.co.nz)

The information contained in this data sheet, is to the best of our current knowledge, true and accurate, but any recommendations or suggestions which may be made are without liability on our part, since the conditions of use are beyond our control. Buyers and users are urged to make their own assessment of our products under their own conditions and for their own requirements. Fraser Brown & Stratmore Ltd reserves the right to alter formulations without notice. Properties as stated were determined under controlled laboratory conditions.

