

# Water Repellent for Porous Materials

## AQUELLUX No. 2

### TECHNICAL DATA

#### 1.0 DESCRIPTION

This is a water based silicate water repellent which changes to a silicone on exposure to atmosphere. AQUELLUX No. 2 is formulated for use on soft porous materials such as calcareous stones (including Oamaru Stone), sandstone, Gypsum Plaster, Terra-cotta, low-fired ceramic products including roof tiles, facing bricks, flower pots, etc. It is not recommended for application to normal or reinforced concrete; use AQUELLUX S.

These materials all absorb water to varying degrees. This leads to problems with surface contaminants such as growth of micro-organisms, discolouration and efflorescence. In-plant treatment of these materials with AQUELLUX No. 2 helps prevent efflorescence, helps to inhibit algal growth and imparts water resistance. Because of its nature, AQUELLUX No. 2 may be applied to damp surfaces.

#### 2.0 PROPERTIES

2.1. Shelf Life	1 year in sealed container.
2.2. Appearance	Clear/hazy liquid.
2.3. D.G. Classification:	8
2.4. pH, approximate:	13
2.5. Solubility in water:	Completely
2.6. Coverage	See application.

#### 3.0 USES

AQUELLUX No. 2 is used to impart water repellency to a wide range of products including:

- Gypsum and gypsum-based plasterboards and aerated concrete (not normal or reinforced concrete – except during winter when the surface is damp and cannot be dried - see below)
- Calcareous stones (including Oamaru Stone) and sandstone.
- Low-fired clay products immediately after they have been made. This includes flower pots, facing bricks, roof tiles and floor tiles.

AQUELLUX No. 2 helps to:

- Prevent growth of moss, lichen and mildew
- Prevent surface degradation due to dirt and soiling, etc and damage due to leakage and dampness.
- Prevent efflorescence and leaching of salts

AQUELLUX No. 2 can be applied to surfaces during winter which can not be dried out. Apply AQUELLUX No. 2 during a dry period, and it will help prevent further water penetration of the substrate therefore allowing it to dry out. For concrete and reinforced concrete, the surface must then be subsequently treated in summer with AQUELLUX S for long-term performance (refer AQUELLUX S data sheet).

AQUELLUX No. 2 should not be applied to coloured construction materials as white deposits can form on the surface.

# AQUELLUX No. 2

## TECHNICAL DATA Continued

### 4.0 APPLICATION INSTRUCTIONS

4.1. Depending on the substrate to be treated, use AQUELLUX No. 2 as supplied or dilute per the following table (guide only). Mix the AQUELLUX No. 2 into clean tap water with vigorous stirring.

Substrate	Dilution (with water)	Coverage (m <sup>2</sup> ) where applicable
Oamaru Stone	Use as supplied	1 – 2m <sup>2</sup> per litre applied as two coats wet-on-wet.
Floor/Roof Tiles	1:5 – 1:7	Immerse for 45 seconds or 2m <sup>2</sup> and above if spraying.
Facing Bricks	1:10 – 1:30 <sup>1</sup>	Immerse for 15 - 60 seconds
Clay Bricks	1:2.5 – 1:10	Variable – test for effectiveness
Flower Pots	Variable	Variable – test for effectiveness
Other substrates	Use as supplied	Variable – test for effectiveness

<sup>1</sup> Dilution depends on various factors and length of immersion. At lower dilution (higher strength), the time of immersion is lower however the concentration of active ingredient is higher. At higher dilution (lower strength), immersion should continue for 45 – 60 seconds. Generally, higher dilution rates are used where bonding of mortar to facing bricks may be an issue.

- 4.2. Apply flood coat to the surface or immerse the material in AQUELLUX No. 2 as indicated in the chart above. It is important to determine the optimum dilution ratio and immersion time or coverage for each substrate being treated. Water repellency will continue to develop over the next 3 – 7 days.
- 4.3. When spraying, apply using a low pressure airless spray – e.g., a pump-up garden sprayer. Ensure the material is applied in the form of droplets – do not mist. Start from **bottom and work up**, allowing a run-down to achieve full saturation of the surface. When a second coat is required, apply the second coat immediately after the first while the substrate is still wet with AQUELLUX No. 2. If applied from top of the surface, the run-down will dry and turn repellant, resulting in poor subsequent penetration and may cause unsightly run-down streaks. Do not apply AQUELLUX No. 2 over a substrate previously treated with AQUELLUX No. 2.
- 4.4. When applying by spray, the entire section to be treated (such as a wall) **must** be treated in one application (of one or two coats as appropriate) as a further application when the first is dry will result in an unsightly and noticeable zone between the two applications.
- 4.5. For Terra-cotta tiles, apply to saturation over the entire area, but avoid puddles as excess material may dry white.
- 4.6. For all applications, test the AQUELLUX No. 2 by applying or immersing at the desired dilution ratio, allow to dry completely and check and accept the dried surface appearance and water repellency before continuing with full application. Uneven application, excessive application and run downs may result in white spots or streaks occurring which are extremely difficult or impossible to remove. Contact manufacturer to discuss specific application details.



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# AQUELLUX No. 2

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## TECHNICAL DATA Continued

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### 5.0 PRECAUTIONS

**Note:** Product is corrosive. Avoid skin and eye contact. Causes severe skin and eye burns. **Protect glass and new paint** from contact with AQUELLUX No. 2 in concentrate and diluted form. Protect plants from contact. DO NOT over apply – see application instructions above. Wear goggles and protective clothing and gloves at all times. Store in a secure area away from children. Read Material Safety Data Sheet and label before use.

### 6.0 CLEAN UP

Clean all tools in water and detergent.

### 7.0 PACKAGING

AQUELLUX No. 2 is available in 4, 20 & 210 litre containers.



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