

WATERBORNE SEALER FOR POROUS SUBSTRATES CONCRETE BLOCK SEALER

TECHNICAL DATA

1.0 DESCRIPTION

CONCRETE BLOCK SEALER is a clear high solids, low VOC waterborne sealer, which when used as part of a complete system, is effective in sealing porous masonry such as concrete blocks, and acts by blocking the pores against water ingress while not changing the appearance of the substrate to any significant extent.

CONCRETE BLOCK SEALER has excellent weathering, UV and yellowing resistance.

CONCRETE BLOCK SEALER is easy to apply, has a good open time and exhibits excellent flow and leveling.

CONCRETE BLOCK SEALER when applied as part of the complete system (including AQUELLUX S WB) in accordance with instructions contained in this data sheet, easily exceeds the requirements of CCANZ CP 01:2014 Code of Practice for Weathertight Concrete and Concrete Masonry Construction, section 4.4 Clear Coating System, when tested in accordance with [AS/NZS 4456.16:2003](#) "Determining Permeability to Water" (tested by Opus International Consultants Limited).

2.0 PROPERTIES

2.1. Colour and gloss	Clear, colourless satin finish when cured.
2.2. Specific Gravity	1.16
2.3. Flash Point	Not applicable (waterborne).
2.4. Viscosity	Low
2.5. Toxicity	Non-toxic
2.6. D.G. Classification	None
2.7. Volatile Organic Compounds	60 g / L
2.8. pH	8 – 9
2.9. Volume Solids	40%
2.10. Shelf Life	2 years in unopened containers as supplied.
2.11. Coverage	See Application (section 4.0).
2.12. Water Permeability	Zero penetration (0mm/minute after 120-minute duration, 200mm head of water) when used as part of the complete concrete block sealer system (including AQUELLUX S WB).

3.0 USES

CONCRETE BLOCK SEALER is recommended for use on all masonry, especially highly porous masonry such as concrete blocks, to seal against the ingress of water. It is especially suited to vertical surfaces and will not sag if applied at the recommended spreading rate. Once cured, it forms a non-absorbent clear coating which resists water and will not blanch when wet (see Precautions, section 5.0).

CONCRETE BLOCK SEALER

TECHNICAL DATA Continued

3.0 USES (Continued)

CONCRETE BLOCK SEALER may be used on all types of concrete and uncoated timber. It is not designed for use in areas subject to excessive wear and tear. It is not recommended for use on plastics or metals. CONCRETE BLOCK SEALER is not suitable for any below grade application or tanking application.

Where compliance to CCANZ CP 01:2014 is required, the full CONCRETE BLOCK SEALER SYSTEM (CONCRETE BLOCK SEALER and AQUELLUX S WB) must be used. Application of the CONCRETE BLOCK SEALER SYSTEM must be by an approved applicator that is a member of the Master Painter's Association of New Zealand.

4.0 APPLICATION

- 4.1. SURFACE PREPARATION: Substrate must be dry, clean and free of dust, dirt, efflorescence, moss, mould, oil, grease and other contaminants. Any visible dirt must be removed as it will still be visible after the CONCRETE BLOCK SEALER has been applied and dried.
- 4.2. **Step 1** – Apply AQUELLUX S WB to concrete blocks: Apply two coats, wet-on-wet, of AQUELLUX S WB by spraying at a rate of 2-3 m² / L for each coat (depending on porosity). Saturate the surface until no more is absorbed but not to excess so that it runs off. Allow to dry (minimum 6 hours) before applying CONCRETE BLOCK SEALER. Full instructions for applying AQUELLUX S WB, may be found on the AQUELLUX S WB technical data sheet.
- 4.3. **Step 2** – CONCRETE BLOCK SEALER is supplied ready to apply. It is not recommended to thin down CONCRETE BLOCK SEALER. Mix carefully until uniform, using a mixing stick or paddle and avoiding the entrainment of air. Apply 3 coats as follows:
 - First Coat: at 2-4 m² per litre
 - Second Coat: at 6-8 m² per litre
 - Third Coat: at 10-12 m² per litre

Use ONLY roller or brush and work well into the surface to block all the pores. Ensure sufficient film build is achieved on edges and on the pointing. A minimum dry film build of 180 µm should be achieved on all surfaces. CONCRETE BLOCK SEALER is not suitable for initial application by spraying as it does not work the material into the pores sufficiently, but spraying may be used for touch-up work. Ensure the spreading rate is sufficient for the porosity of the substrate, but do not apply so much as to cause sagging or runoff. Before each coat has dried, it is prudent to examine for runs, as excessive material may come out of the pores and run down vertical surfaces. If this occurs, touch up carefully with a brush before it dries. Allow each coat to dry completely before applying the next. The first coats will take longer to dry as they are applied at a higher film build. Ensure the coating has dried to a clear, transparent film before applying the next coat.



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CONCRETE BLOCK SEALER

TECHNICAL DATA Continued

5.0 PRECAUTIONS AND LIMITATIONS

- 5.1 Not suitable for spraying on first application. Use only roller or brush and work well into surface to fill pores. Spraying may only be used for touch-up work.
- 5.2 Do not apply if the relative humidity is above 85% or the temperature is below (or falls below) 7°C during application and drying. The temperature must always be at least 5°C above the dew point.
- 5.3 While CONCRETE BLOCK SEALER has good resistance to sagging, be careful not to exceed the natural spreading rate. Excessive application rates (as evidenced by ponding of material) will result in runs on vertical surfaces. Examine the applied coating for runs before it dries, especially material oozing out of pores and touch up by brush if necessary.
- 5.4 Although CONCRETE BLOCK SEALER has excellent resistance to water blanching, it is not recommended for use in areas where water may pond or pool for extended periods of time. If blanching does occur it is reversible upon drying (the coating will become clear again), but the coating may become weakened and lose adhesion following prolonged immersion under water.
- 5.5 CONCRETE BLOCK SEALER is not to be used in below grade or tanking applications. It is for above grade applications only.
- 5.6 Not recommended for use in areas subject to a high rate of wear and tear.
- 5.7 Not suitable for application to excessively smooth and non-porous substrates, such as plastics and metals.
- 5.8 Efflorescence: Concrete Block Sealer will not cause or correct/prevent efflorescence.

6.0 PACKAGING

4 L & 10 L containers.



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