

WATERBORNE SEALER FOR POROUS SUBSTRATES PROTECTA-COAT

TECHNICAL DATA

1.0 DESCRIPTION

PROTECTA-COAT is a clear high solids, low VOC waterborne sealer for internal and external concrete and masonry substrates. PROTECTA-COAT has excellent weathering, UV and yellowing resistance. PROTECTA-COAT is easy to apply, has a good open time and exhibits excellent flow and leveling. It is used to provide a clear, low sheen protective coating to internal substrates and to coat external substrates that **do not** require compliance with CCANZ CP 01:2014 Code of Practice for Weathertight Concrete and Concrete Masonry Construction, section 4.4 Clear Coating System.

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).

3.0 USES

PROTECTA-COAT may be used on all concrete and masonry where a low sheen (satin) clear finish is desired. It is especially suited to vertical surfaces and will not sag if applied at the recommended spreading rate. Suggested applications include:

- Internal concrete masonry block and in-situ walls to help keep clean and maintain the concrete look
- External concrete block and in-situ walls in areas such as patios, barbeque pits, etc.

Once cured, it forms a non-absorbent clear coating which resists water and will not blanch when wet (see Precautions, section 5.0).

PROTECTA-COAT is recommended for application to internal walls and external walls not requiring compliance with CCANZ CP 01:2014 Code of Practice for Weathertight Concrete and Concrete Masonry Construction, section 4.4 Clear Coating System.

For any waterproofing application requiring code of compliance, the CONCRETE BLOCK SEALER SYSTEM must be used (refer CONCRETE BLOCK SEALER SYSTEM data sheets).

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3.0 USES (continued)

PROTECTA-COAT may be used on all types of concrete, masonry 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. PROTECTA-COAT is not suitable for any below grade application or tanking application.

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 PROTECTA-COAT has been applied and dried.
- 4.2. PROTECTA-COAT is supplied ready to apply. It is not recommended to thin down PROTECTA-COAT. Mix carefully until uniform, using a mixing stick or paddle and avoiding the entrainment of air. Refer to the table following to determine the number of coats required:

Application	Number of coats
Internal wall	1 to 3 depending on porosity of the substrate. More coats will be required on porous masonry compared to dense precast concrete.
External wall not requiring waterproofing (such as a patio or barbeque area wall independent of a habitable structure)	1 to 3 depending on porosity of the substrate. More coats will be required on porous masonry compared to dense precast concrete.
External face of wall which is part of a habitable structure requiring waterproofing but <u>does not</u> require building code compliance	3 coats. The substrate must first be primed with AQUELLUX S WB at 3m ² per litre. Refer to the AQUELLUX S WB data sheet for more details.

IMPORTANT:

1. It is essential to test an application of PROTECTA-COAT to the substrate prior to proceeding with full coverage. Apply the desired (or required) number of coats as per the instructions on the label and this data sheet, allow to dry and then determine whether to proceed with full application.
2. PROTECTA-COAT is not suitable for application to any wall/structure requiring building code compliance for weathertight concrete and masonry. In these situations, the CONCRETE BLOCK SEALER SYSTEM must be used and applied by an approved MASTER PAINTERS ASSOCIATION of NZ applicator.



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4.0 APPLICATION (continued)

4.3. Apply the correct number of coats as follows:

- First Coat: at 2 – 4 m² per litre depending on porosity of substrate
- If required: Second Coat at 6 – 8 m² per litre
- If required: Third Coat at 10 – 12 m² per litre

Use ONLY roller and brush working well into the surface to block all the pores. Ensure sufficient film build is achieved on edges and on the pointing. Work well into the pointing, especially where it is highly recessed, using a thin brush and brushing parallel to the pointing. Do not use a vigorous brushing motion which will cause entrapment of air and foaming.

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 or pointing 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.

Where water proofing is required, a minimum dry film build of 180 µm should be achieved on all surfaces. PROTECTA-COAT 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.

5.0 PRECAUTIONS AND LIMITATIONS

- 5.1 Not suitable for spraying on first application. Use only roller and brush, working well into surface to fill pores. Spraying may only be used for touch-up work. At all times, avoid excessively vigorous brushing, especially at right angles to the pointing, which may result in air entrapment and foam. Ensure no grossly excessive film build is applied in one coat, as it may not dry absolutely clear, especially if air is entrapped or drying conditions are not favourable.
- 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 PROTECTA-COAT 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 or pointing and touch up by brush if necessary.



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5.0 APPLICATION (continued)

- 5.4 Although PROTECTA-COAT 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 PROTECTA-COAT is not suitable for application to any wall/structure requiring building code compliance for weathertight concrete and masonry. In these situations, the CONCRETE BLOCK SEALER SYSTEM must be used and applied by an approved MASTER PAINTERS ASSOCIATION of NZ applicator.
- 5.6 PROTECTA-COAT is not to be used in below grade or tanking applications. It is for above grade applications only.
- 5.7 Not recommended for use in areas subject to a high rate of wear and tear.
- 5.8 Not suitable for application to excessively smooth and non-porous substrates, such as plastics and metals.
- 5.9 Efflorescence: PROTECTA-COAT will not cause or correct/prevent efflorescence.

6.0 PACKAGING

4 L, 10 L & 20 L containers.



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