

# WATERBORNE HIGH-PERFORMANCE MEMBRANE AND SEALER FOR CONCRETE

## WBHP CONCRETE SEALER

### TECHNICAL DATA

#### 1.0 DESCRIPTION

WBHP CONCRETE SEALER is a clear low VOC waterborne sealer for interior and exterior concrete and is effective in sealing the surface, preventing ingress of water and other contaminants, thus making it easier to keep clean and helping to maintain its original appearance for longer. It is primarily intended for smooth or lightly textured concrete, but may be used on more heavily textured surfaces with care.

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

WBHP CONCRETE SEALER has a good open time and exhibits excellent flow and leveling.

#### 2.0 PROPERTIES

2.1. Colour and gloss	Clear, colourless gloss finish (depends on porosity of concrete surface and number of coats applied).
2.2. S.G.	1.03
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	25 g / L
2.8. pH	7.5 – 9.5
2.9. Volume Solids	30%
2.10. Shelf Life	2 years in unopened containers as supplied.
2.11. Coverage	5-10 m <sup>2</sup> / L. per coat, depending on surface porosity.

#### 3.0 USES

WBHP CONCRETE SEALER is ideal for application to all types of concrete which has aged for at least 7 days after finishing operations are complete. It is also recommended for use on aged concrete and most types of masonry to seal against the ingress of water and other contaminants.

WBHP CONCRETE SEALER is specifically designed for use on horizontal surfaces where it will tolerate water pooling on it intermittently. Once cured, it forms a clear non-absorbent coating which resists water and will not blanch when wet. It has greater wear resistance than most common sealers. For vertical surfaces, PROTECTA-COAT GLOSS is recommended as it is designed to resist sagging.

WBHP CONCRETE SEALER is suitable for all types of concrete and precast pavers.

WBHP CONCRETE SEALER is designed for use in areas subject to foot and light vehicular traffic and generally areas subject to moderate wear and tear.

WBHP CONCRETE SEALER may be used on uncoated timber but is not recommended for use on plastics, metals or other non-porous substrates.

**IMPORTANT NOTE:** Before commencing job, always test by applying to a small inconspicuous area first and allow to dry. Examine carefully to determine if the desired finish has been achieved and thus determine suitability for the whole job. Contact Stratmore Construction Solutions Ltd if unsure.

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## TECHNICAL DATA Continued

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### 4.0 APPLICATION

- 4.1. This technical data sheet is to be read in conjunction with the product label. Where any discrepancies or recommendations or instructions differ, this technical data sheet takes precedence over the label.
- 4.2. WBHP CONCRETE SEALER is supplied ready to apply and should not be thinned. Mix carefully until uniform, using a mixing stick or paddle, avoiding the entrainment of air.
- 4.3. **New concrete.** New concrete should be aged at least 7 days after finishing operations are completed (more if possible) and should be as dry as possible to assist absorption of the coating. Ensure that the surface is able to absorb water quickly. If unsure, it is recommended to give the surface a light acid etch first to open up the pores to ensure good adhesion. Smooth floated surfaces will almost certainly require acid etching. Rinse any acid residues thoroughly and allow to dry. Best results are obtained on an absolutely clean and dry surface with sufficient porosity. **Refer also to section 5.2 regarding drying conditions.** Apply WBHP CONCRETE SEALER by short nap roller (4 mm), brush or speed brush, working it gently into the surface, then laying off the excess. **Applying by broom is NOT recommended.** Avoid foam generation and lap marks. Best results are obtained by speed brush or by rolling at a slight angle to the roller axis. Apply one coat at the natural spreading rate (5-8 m<sup>2</sup> / L depending on surface porosity). **Do not overapply.** More thinner coats are better than fewer thicker coats. A minimum of two coats is recommended. The first coat should be allowed to cure thoroughly before applying the next. On new (7 day old) concrete, 2 days cure under good drying conditions are recommended to allow excess water vapour to diffuse out. The second and subsequent coats should be applied at no thicker than 8-12 m<sup>2</sup> / L. After the second coat has cured, check for complete sealing by applying a little water. The water should bead and the concrete should not darken after brief contact with water. Check that the gloss level is as desired. If the concrete is not completely sealed (as determined by the water test) or if a higher gloss is desired, a third coat may be applied at 10-12 m<sup>2</sup> / L.
- 4.4. **Aged concrete and masonry:** SURFACE PREPARATION: Substrate must be clean and free of dust, dirt, efflorescence, moss, mould, oil, grease and other contaminants and must be uncoated and porous. Any existing coating must be completely removed and the surface should be acid etched if necessary, as described in section 4.3 above. Any visible dirt must be removed as it will still be visible after the WBHP CONCRETE SEALER has been applied and dried. Apply by short nap roller (4 mm), brush or speed brush (NOT by broom) at the natural spreading rate, depending on the texture and porosity of the surface. Best results are obtained by speed brush or by rolling at a slight angle to the roller axis. Further coats of WBHP CONCRETE SEALER may be applied after at least 3 hours of good drying conditions. Indicatively, the spreading rate may be from 5 to 8 m<sup>2</sup> / L for the first coat and 10-12 m<sup>2</sup> / L for subsequent coats. Ensure each coat has dried to a clear, transparent, non-sticky film before applying the next coat.
- 4.5. May be used with care on textured surfaces. Use the minimum nap size roller necessary for complete coverage, without applying excess. Avoid product pooling between the aggregate.
- 4.6. **Clean up:** Water may be used to clean all tools and implements, as well as any splashes or spillages. Clean up as soon as possible, before the material starts to form a skin.



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## TECHNICAL DATA Continued

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### 5.0 PRECAUTIONS AND LIMITATIONS

- 5.1 Before sealing concrete, it is always prudent to check the moisture content and ascertain if water is likely to wick up from below during its lifetime. For more information on this, please refer to our Fact Sheet "Causes and Correction of Blushing, Blooming, Blanching or Whitening of Sealed Concrete", available for download from our website.
- 5.2 **Drying conditions:** Do not apply if the relative humidity is above 85% or the air or substrate 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. Do not allow the coating to dry too quickly when first applied, as it needs time to level and release any application foam. Avoid strong wind and drafts for the first half hour or so after application.
- 5.3 **Avoid application of thick coats.** WBHP CONCRETE SEALER is not designed for application to highly textured surfaces such as exposed aggregate where it may pool around the aggregate (use HARDCOAT or SAME DAY SEALER instead) or vertical surfaces where it may sag and run off unless applied very thinly. Since wear resistance is less important on vertical surfaces, it is recommended to use PROTECTA-COAT or PROTECTA-COAT GLOSS instead, depending on the desired gloss level. These products have excellent resistance to sagging. Consult the relevant data sheets.
- 5.4 Not to be used as a waterproof coating or sealer for water retaining structures, reservoirs, tanks, ditches or channels, nor as a waterproof coating or sealer where the substrate forms part of any structure required to prevent the ingress of water during service.
- 5.5 Allow the final coat to cure for at least 2-3 days in good drying conditions before subjecting to light traffic. WBHP CONCRETE SEALER will take up to a week to develop its full resistance to wear and abrasion, depending on conditions.
- 5.6 While WBHP CONCRETE SEALER has improved wear resistance over traditional sealers, it should be remembered that performance will always be limited by the nature of the substrate and its ability to withstand the use it is being put to. For example, some soft, natural stones with poor wear resistance will not be hardened by having a higher performance sealer applied. Wear rate will also depend on the type of traffic and location. For heavy traffic, WBHP CONCRETE SEALER will wear more quickly, especially in areas where wheels turn or where traffic is restricted to one location (such as a narrow driveway) and where forklifts operate. For flooring applications, any items dragged across the WBHP CONCRETE SEALER surface may cause the surface to be scratched and wear more quickly.
- 5.7 Suitable for wood but test before using on whole job. It may raise the grain and require sanding between coats.
- 5.8 Not suitable for application to smooth, non-porous substrates, such as plastics and metals, nor for very dense natural stones such as smooth, polished marble.

### 6.0 PACKAGING

4 L, 10 L & 20 L plastic pails.



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