Bond for Life.®

Technical Data Sheet

SiegelProof P12



Rapid Moisture Vapour Barrier 1K

Product Description

SiegelProof P12 is a moisture curing polyurethane primer and surface membrane which is single component, non-flammable and solvent free. This sealer is engineered as a moisture vapor barrier for cement-based substrates including green slabs that are not subject to rising damp and have a residual humidity content up to 95% RH (ASTM P2170) as per AS1884-2012). SiegelProof P12 is moisutre vapor barrier and does not guarantee against Hydrostatic Pressure or Rising Damp. While moisture testing may indicate acceptable moisture ranges for application of SiegelProof P12, it may not indicate whether Hydrostatic Pressure is present. If Hydrostatic Pressure is evident or a moisture barrier is required, we recommend the use of SiegelProof PRO2K Part Moisture Barrier.

Product Advantages

- SiegelProof P12 is a single part system requiring no ratio mixing.
- SiegelProof P12 is rapid drying with fast recoat and job times.
- SiegelProof P12 is solvent free, odourless and is non-flammable.
- SiegelProof P12 has a very low VOC emission rate.
- SiegelProof P12 is moisture curing, meaning no activator are required.
- SiegelProof P12 has excellent adhesion to most substrate including green concrete.

Application

SiegelProof P12 can be applied onto concrete substrates as a Polyurethane Primer and Green Slab Sealer Vapour Barrier. It rapidly cures to a tack free film allowing the subsequent application of coverings approximately 2 hours after initial application (subject to ambient temperature and humidity)

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Technical Information

Type	1K Moisture Cure Polyurethane
Colour	Light Brown
Solids Content	100%
Maximum Residual Humidity	Up to 95% R.H.
Viscocity	(23°c) 100 cps
Low VOC Compliance	GBCA VOC compliant Yes
VOC content	ASTM D-2369 10g/L (low)
Overlay Time	60 minutes
Application Temperature	+7°c - +35°c
Foot Traffic Time	120 minutes
Working Time	Between Coats Minimum 40 minutes Maximum 2 hours
Final Hardening Time	4 hours
Density	1.20-1.24 (g/cm2)
Shelf Life	12 months

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Surface Preparation

- In preparation for sealing the surface should be prepared in accordance with the relevant Australian Standards "Textile Floor Coverings Installation Practice", Timber Flooring Installation Practices and Floor Coverings - Resilient Sheet & Tiles - Laying & Maintenance Practices
- All surfaces to be sealed and should be dry, smooth, absorbent, sound and clean.
- Subfloors must also be free of wax, grease, paint, previously used adhesive, polish, and any other impurities that may affect adhesion.
- Any previous coatings or curing compounds must be removed as substrate must be porous.
- All concrete subfloors must be tested for moisture content. Relative humidity readings should be
- determined as per ASTM P2170.
- SiegelProof P12 must not be used on floors where the relative humidity readings are greater than 95% RH (In- Situ)
- Subfloors should also be tested for pH, with results not to exceed 12. If Moisture and pH levels exceed these readings, we recommend the use of SiegelProof Two Part Moisture Barrier.
- Ideally, we recommend subfloors be mechanically prepared by way of either grinding, shot blasting or sanding to achieve a roughened, absorbent/ porous surface that the SiegelProof P12 can key into satisfactorily. However, mechanical surface preparation is subject to the experience and knowledge of the applicator and the condition and porosity of teach specific surface.
- Any previous coatings or curing compounds must be removed as substrate must be porous. It is recommended a test area must be carried out on the surface that has been prepared to ensure suitable floor preparation has occurred and adhesion of the SiegelProof P12 to the substrate is acceptable.
- The minimum recommended subfloor temperature before commencing surface preparation and application is 10°C.

Application Direction

- Consumption Rate: Approximately 200 grams /m2 per coat. When applied should be used at a consumption rate of up to approximately 200g/m2 - 5 sq meters per liter. 10kg pail should cover up to approximately 50m2.
- Coverage will vary depending on the porosity of the surface and method of application.
- Floor must be absorbent. If the floor is not absorbent do not proceed with the installation.
- Apply one even thin coat with a short nap roller with a pile height of no less than 5mm, Flat Trowel or Squeegee.
- Please ensure a thin uniform coat is applied to avoid minor puddles and minor foaming.
- Care and consideration should be taken to ensure the material is applied to the entire surface of the concrete substrate. For highly absorbent floors a second coat may be required.
- The second coat should be applied in the opposite direction to the first coat (North South- East West)
- Allow to cure for a minimum of 40 mins before recoating. Do not allow any traffic on the applied SiegelProof P12 for minimum 2 hours.
- Care and consideration should be taken to ensure coating is not damaged particularly that the film is not perpetrated, or its integrity compromised at any time.

Levelling Compounds

- If the substrate needs to be rectified or a water-based adhesive is to be applied, a 3mm thickness of an approved cementitious smoothing and levelling compound must be applied over SiegelProof P12.
- Allow approximately 2 hours for the SiegelProof P12 Barrier to cure before application. SiegelPrime P10 concentrate should be used to prime SiegelProof P12 before levellling.

Limitations

- Drying times can be extended when applied in colder environments.
- Do not use on wet, dusty, contaminated, or friable substrates.
- Resistant only to the following: water, dilute acids, diluted caustic solutions, temporarily resistant to fuel, animal fats and oils, not resistant to organic acids, concentrated caustic solutions.
- Flooring adhesives should not be applied of SiegelProof P12 until the barrier is fully cured - which will be indicated by the film being clear.

Health & Safety

Health and Safety: Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. Safety data sheet available on request. Users must first read the Safety Data Sheet. Users should familiarize themselves with all the safety aspects of the product prior to usage.

Product Disclaimer

Since the use and application of this product is beyond our control, we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty. In every case we recommend that the customer conducts their own testing and accordingly determines, to their satisfaction, its suitability for their purpose under the operating conditions in which they will use the product/s.

For additional information, phone our Customer Service Centre on AU (02) 4858 1771 or NZ (09) 951 9552