



## SiegelProof PRO45

### Permanent Immersion Waterproofing Membrane

#### Product Description

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*SiegelProof PRO45 is a high-performance rubber based synthetic waterproofing membrane for permanent immersion applications, which will give a tough durable and flexible membrane.*

#### Product Advantages

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- SiegelProof PRO45 is a Class III waterproofing system.*
- SiegelProof PRO45 remains permanently flexible and will withstand structural movement.*
- SiegelProof PRO45 has excellent adhesion onto most common building materials.*
- SiegelProof PRO45 will bridge cracks up to 1.5mm.*
- SiegelProof PRO45 is low VOC and has a rapid cure rate for fast job completion.*
- SiegelProof PRO45 can be used for permanent immersion and is potable water approved.*
- SiegelProof PRO45 is highly resistant to puncture and is hardwearing.*

#### Applications

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*SiegelProof PRO45 can be used in gutters, fire tanks, retaining walls, roof gardens, terraces, podiums, decks, balconies, and for slab edge waterproofing. Note: is not suitable for large areas subject to long-term direct UV exposure.*

#### Suitable Substrates

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*SiegelProof PRO45 is suitable for use onto bricks and concrete, cement sheet, plywood, aluminium, cement render, steel (primed), trafficable screeds and aggregate blocks.*

#### Technical Data

Product Type	Synthetic Rubber Membrane	One Component
Recommended Coats	2 Coats	
Typical Coverage	1.5m <sup>2</sup> per L	667µm WFT
Recoat Time	2-4 hours	
Screed / Overcoat Time	24 hours +	
Full Cure	7 days	
Colour	Light Grey	
Clean Up	Water	
Shelf Life	12 months	

#### Approvals & Testing

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- *Green Star: Design & As Built v1.1: Indoor Pollutants 13.1 Paints, Adhesives, Sealants & Carpets.*
- *AS4654 Waterproofing of External Above Ground Building Elements,*
- *AS4020 Products for use with Drinking Water.*

## Test Data

Abrasion Resistance	1.5N/mm <sup>2</sup>	ASTM D4541
Tensile Strength	3.2 MPa	AS46454/1
Elongation	310%	AS4858 A1 (a)
Water Vapour	1.8g/m <sup>2</sup> per 24 hours	ASTM E96
Cyclic Movement	Pass – 50 cycles	CSIRO Moving Joint Test
Abrasion Resistance	0.17mm	ASTM D1242
Temp Resistance	Pass	AS4654.1 (5°C - 85°C)
Durability Test	Pass	AS4654.1
Chemical Resistance	7 Day Immersion	Dilute Acids – Good Dilute Alkali – Good Salt Solutions – Good
Water Absorption	2.73%	AS3558.1
VOC	1%	SCAQMD 304-91

## Application Instructions

### Surface Preparation

- All surfaces should have a light even texture. Masonry should be flush pointed and all defects in existing surfaces made good.
- Surface must be clean, dry, sound and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants.
- All high points and protrusions should be removed, blow holes and areas of honeycombing should be filled and the surface should be brought back to an even profile using suitable repair mortar.
- For maximum adhesion, priming with SiegelPrime is recommended.
- Substrates that are porous or dusty should be primed with a 1:1 dilution of SiegelProof PRO45 and water.
- SiegelProof PRO45 may be applied to thoroughly clean, dry and dust free surfaces without priming.
- If the substrate is not dry, prime the surface with SiegelPrime as per specification.
- Note: Due to the wide variety of substrates available, adhesion testing is recommended in a trial area before full application.

### Application Conditions

- Substrate must be dry, with less than 15% moisture content. The use of a suitable moisture meter is recommended.
- Recommend application during ambient temperatures of 10°C and 35°C. Do not apply if the relative humidity is above 85% during initial curing phases, or if rain is expected before curing.
- During humid conditions, the use of a fan or increased airflow will assist curing.

### Application Method

- Apply SiegelSeal or SiegelFlex bond-breaking sealants to internal angles/corners (wall to wall junctions) as per waterproofing standards.
- Apply SiegelProof PRO45 with a membrane brush or membrane roller or similar.
- Apply the first coat of SiegelProof PRO45 as per recommended coverage rate. Work from corners to central areas allowing time to cure.
- If only a bond-breaking sealant has been used it is recommended to install a reinforcing fabric to all joints and corners in conjunction to the first coat of SiegelProof PRO45.
- Apply a second coat of SiegelProof PRO45 as per the recommended coverage rate at a 90° angle to the coating direction of the first coat. Allow to cure a minimum of 24 hours before application of screed or before covering over.
- If pond testing is required allow drying for a minimum of 48 hours to ensure a full cure. Pond test with water to a depth of 25mm for 2 hours. After testing ensure the area is drained and dried.

### Clean Up

- Uncured material may be removed with warm water and detergent. Cured material may be removed mechanically.

## **Maintenance & Repair**

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- *SiegelProof PRO45 must be protected from damage by after trades and inspected prior to the application of any overcoat.*
- *Moisture blisters and bubbles may be repaired by cutting out the affected area, allowing the substrate to properly dry and reapplication of the membrane as per recommended coverage rates.*
- *Protect membrane from harsh chemicals, abrasion, and other potentially damaging conditions.*

## **Precautions**

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- *Do not apply if the temperature is below 10°C or if relative humidity is above 85% or if rain is imminent.*
- *Do not apply SiegelProof PRO45 to wet substrates. The moisture content of the surface should be less than 15%. Check with a moisture meter if unsure.*
- *Ensure adequate ventilation airflow to optimise membrane curing time.*
- *SiegelProof PRO45 is not designed for long-term UV exposure.*

## **Safety & Handling**

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***Please consult the Safety Data Sheet for further information.***

*All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for SiegelProof PRO45. Users should familiarize themselves with all the safety aspects of the product prior to use.*

*Please ensure the current Technical Data Sheet is consulted prior to the specification or application of Siegel products. Siegel Pty Ltd will in many instances provide Area Specific Instruction Sheets which contain detailed instructions on how to achieve desired results for specific areas. If the surface intended to be painted differs from the specification, please consult the Siegel Technical team on 1300 729 863.*

### **Health & Safety**

Health and Safety: Keep out of reach of children. 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.

#### **First Aid**

If poisoning occurs, contact a doctor or poison information centre 13 11 26.  
If swallowed, do not induce vomiting. Give a glass of water to drink.  
If in eyes, wash with water for 15 minutes.

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### **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 1300 729 863.  
March 2021 - This Data Sheet supersedes those previously issued.

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