

SiegelProof 2K

High Performance
Epoxy Moisture Barrier

Product Description

SiegelProof 2K is a high-performance two-component epoxy sealer and moisture barrier. This formula provides high adhesion and long-term film strength to protect against rising damp, abrasion and both positive and negative water pressure.

Product Advantages

- ❑ SiegelProof 2K is a high-performance water-based 1:1 epoxy system.
- ❑ SiegelProof 2K is a tough, impervious barrier with high chemical, oil and solvent resistance.
- ❑ SiegelProof 2K has very high adhesion to both damp and dry subfloor surfaces.
- ❑ SiegelProof 2K is non-toxic, non-flammable and easy cleanup.
- ❑ SiegelProof 2K is highly waterproof for both positive and negative side pressures.
- ❑ SiegelProof 2K is easy to apply by brush, roller and spray application.
- ❑ SiegelProof 2K is a low sheen / semi-gloss finish.

Applications

SiegelProof 2K is a hand or spray-applied barrier for use on basements, tunnels, foundations, retaining walls, planter boxes, concrete floors, food processing areas, under timber floors, and for water retention structures.

Suitable Substrates

SiegelProof 2K is suitable for use onto concrete, cement render, brick and block work, cement sheet, plaster, particle board, metal and most common building materials.

Technical Data

Product Type	Waterbased Epoxy	Two Component
Recommended Coats	2 Coats	
Mix Ratio	1:1 by volume	
Coverage	5-7m ² / L	
Wet Film	150 -200 microns	
Recoat	4 – 6 hours	
Light Foot Traffic	2-3 days	
Full Cure	7 days	
Colour	Light Grey	
Shelf Life	9 months	
Kit Size	20L & 8L	
Application	Hand Applied or Spray Applied	

Approvals & Testing

- Green Star: Design & As Built v1.1: Indoor Pollutants 13.1 Paints, Adhesives, Sealants & Carpets.
- APAS 181 – V.O.C. limits

Test Data

VOC Content	50g/L (low)	ASTM D-2369
Volume Solids Content	42% V/V	
Hydrostatic Pressure Resistance	210kPa for 36 hours	(20.7m head pressure)
Alkali Resistance	Good	
Acid Resistance	Good (low concentrates)	
Solvent Resistance	Fair	
Abrasion Resistance	Excellent	
Hot Water Resistance	Excellent	
Salt Resistance	Excellent	

Application Instructions

Surface Preparation

- Surface must be clean, dry, sound, and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance, or any other contaminants.
- Surfaces may be dry or damp (not saturated with standing water).
- **Do not apply to substrates with a moisture content higher than 30%.**
- The surface should have a light even texture. Masonry should be flush pointed and all defects in existing surfaces made good.
- 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 a suitable repair mortar.
- Voids may be filled using a mix of 1 part SiegelProof 2K and 4 parts clean fine sand.
- Note: Due to the wide variety of substrates available, adhesion testing is recommended in a trial area before full application.

Application Conditions

- Pot life between 25-45 minutes, dependent upon temperature and humidity, do not use after this time as curing will occur but not appear obvious.
- Recommend application during ambient temperatures of 10°C and 25°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.

Mixing

- SiegelProof 2K is supplied in 2 pre-measured components.
- If part kits are mixed, ensure that components are accurately measured to maintain a 1:1 by volume mix ratio. Always mix SiegelProof 2K in a clean container, large enough for the full kit.
- Only mix enough material that can be applied within the pot life of the relevant conditions.
- Mixing should be done with a mixing drill and mixing blade.
- Mix part 1 and part 2 separately for 1 minute.
- Add equal parts by volume of part 1 and part 2 to the mixing vessel and mix for at least 3-4 minutes until a homogenous light grey liquid is achieved.
- Note: poor mixing or inaccurate mixing ratios will result in a variable cure, less than optimum hardness and reduced overall performance.

Application Method

- Apply by brush, roller or airless spray.
- Apply the first coat, ensuring the application rate is as per recommended coverage rates and a consistent coating is achieved.
- Allow the first coat to cure for at least 4-6 hours.
- Apply the second coat as per the recommended coverage rates.
- Allow to achieve full cure before exposing to moisture or traffic.
- Allow to cure for 24 hours before overcoating with membranes, timber flooring or other coatings.
- **Note: if multiple kits are to be applied, ensure each new kit is prepared in a clean mixing vessel. Roller covers must be cleaned or replaced with every new batch.**
- **Note: Do not apply solvent-based adhesives or sealants until SiegelProof 2K has reached a full cure.**

Clean Up

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

Precautions

- Always ensure that substrate moisture content is within acceptable parameters.
- Do not apply during periods of extreme weather conditions.
- Mixing ratios must be accurate at a rate of 1:1 by volume.
- Ensure adequate air flow to optimise curing.
- Wear gloves and eye protection during mixing and application.
- Mix as per instruction to achieve a homogenous material.

Safety & Handling

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 2K. 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 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 poisons 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.

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.

Siegel Adhesives

Phone: 1300 729 863
+61 2 4858 1771
Fax: +61 2 4869 3031
technical@siegeladhesives.com

Australian Head Office

Lv.6 / 10 Herb Elliott Ave
Sydney Olympic Park
NSW 2127
Australia

New Zealand Head Office

40 Onehunga Mall
Onehunga
Auckland 1061
New Zealand