



Product Data Sheet

Retek Epoxy Concrete Primer

Description

Retek Epoxy Concrete Primer is a two-component, solvent-based epoxy primer designed for concrete substrates. It penetrates into the concrete surface to enhance adhesion and promote a strong bond for subsequent coatings. The primer cures to a clear finish.

Recommended Uses:

Ideal as a primer coating for concrete, cement, and screed surfaces, including:

- Concrete floors
- Concrete walls
- Concrete swimming pools
- Cement floors
- Screed floors

Preparation is key!

Please read and follow the full application process before use.

Retek Epoxy Concrete Primer consists of two components:

- **Part A:** Base Product
- **Part B:** Hardener

Mix at a ratio of **4 parts Part A to 1 part Part B.**

Important:

Do not cross-mix primer, epoxy, or poly urethane hardeners. Each system uses a specific hardener and is not interchangeable.

Recommended as a preparatory coating on raw concrete prior to application of:

- Retek Heavy Duty Epoxy
- Retek Poly Urethane
- Retek Pool Epoxy
- Retek High Build Epoxy

Suitable for use as a preparatory floor and wall coating on concrete substrates.





Product Properties:

- Easy application using mohair roller, epoxy pile roller, brush, spray or airless spray.
- Water resistant
- Typical dry film thickness: approximately 125 microns, depending on substrate porosity and penetration.
- Available in clear.

Technical Information

- **Colour**
Clear
- **Finish**
Gloss Finish (dependent on substrate penetration)
- **Mix Ratio**
4 : 1 (Part A : Part B)
- **Activator**
Retek Epoxy Primer - Part B (Hardener_
- **Typical Film Thickness**
Approximately 125 microns per coat, applied by roller (dependent on substrate penetration)
- **Theoretical Coverage**
1 kg: $\pm 5\text{m}^2$ at ± 125 microns (applied by roller)
5 kg: $\pm 25\text{m}^2$ at ± 125 microns (applied by roller)
25 kg: $\pm 125\text{m}^2$ at ± 125 microns (applied by roller)
- **Method of Application**
Brush, mohair roller, epoxy pile roller, spray, or airless spray
- **Number of Coats**
One (1) coat of Epoxy Primer is recommended to help achieve a pinhole-free coating. If the substrate absorbs excessive primer ("drinks" the primer), a second (2) coat is recommended.

Surface Preparation

Remember: Preparation is key.

The performance of the coating is directly dependent on the condition of the surface to which it is applied. Proper surface preparation is essential to ensure that your Retek Epoxy Floor Coating achieves an excellent finish and long-lasting performance.





All surfaces must be clean, dry, and free of oils, grease, rust, dirt, dust, curing agents, and any loose or friable material.

New concrete must be allowed to cure for a minimum of 28 days prior to coating. Cold weather and high humidity may extend curing times. Power-floated or hand-troweled smooth (not polished) concrete is suitable for light traffic areas. For heavy traffic or abrasive environments, diamond grinding (surface grinding) is recommended to achieve optimal adhesion and long-term performance. If the concrete surface is uneven, a concrete surface grinder should be used.

Inspect the substrate for cracks, holes, joints, and seams. Please note that primer, epoxy, or polyurethane coatings are not designed to fill cracks, bridge joints, level uneven surfaces, or conceal substrate imperfections. Concrete floors naturally contain joints to allow for movement and expansion.

- Fill joints with a suitable joint sealer
- Fill cracks and holes using Polycell Rockset
- Allow all filler materials to fully cure
- Sand repaired areas flat using 60–80 grit sandpaper

For additional guidance, please refer to Retek's Application Process for further surface preparation requirements.

Application

Retek Epoxy Concrete Primer is a two-component system consisting of Part A (Base Product) and Part B (Hardener). Mix at a ratio of 4 parts Part A to 1 part Part B.

Add Part B into Part A and mix thoroughly using a flat paddle or electric mixer. Avoid excessive agitation to minimize air entrapment and prevent foaming. Stir periodically during application to prevent the components from separating.

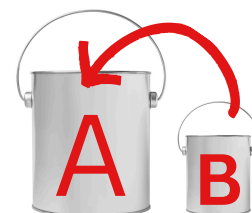
After mixing, allow the material to stand for 5–10 minutes before application (induction time).

The ideal application temperature is approximately 21°C.

The primer can be applied using a mohair roller, paint brush, spray, or airless spray. Use a brush for edges, corners, and touch-up work.

Pot Life:

Once mixed, the product must be used within 2 hours.



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Drying Information

Allow 24 hours for the coating to be touch dry and 48 hours before foot traffic. Always test the surface before walking on it. Drying times may be extended in cooler temperatures or high humidity conditions.

- Touch Dry: Approximately 24 hours at $\pm 20^{\circ}\text{C}$

Pack Size:

- **1 kg Primer Two Part Kit:** 800 g Part A (Base Product) : 200g Part B (Hardener)
- **5 kg Primer Two Part Kit:** 4 kg Part A (Base Product) : 1 kg Part B (Hardener)
- **25 kg Primer Two Part Kit:** 20 kg Part A (Base Product) : 5 kg Part B (Hardener)

Storage

- Store in dry conditions, out of direct sunlight, and away from sources of heat or ignition.
- Shelf Life: Use within 3 months at 25°C from the date of manufacture.

Safety Instructions

- Flammable liquid.
- Harmful or fatal if swallowed.
- Keep out of reach of children.
- Avoid contact with bare skin. Wear protective gloves and appropriate protective clothing.
- Use only in well-ventilated areas.
- Avoid inhalation of vapours. Wear an approved air respirator or full-face mask.
- Do not pour leftover material into drains or waterways.
- Dispose of unwanted material in a sealed container via an approved chemical waste disposal facility.

First Aid

- If swallowed: Do not induce vomiting. Drink water and seek immediate medical attention or contact the Poisons Information Centre.
- If in eyes: Flush immediately with clean water for at least 15 minutes. Seek medical attention if irritation persists.

Product of Resintek (Pty) Ltd T/A Retek Epoxy Coatings

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