



Product Data Sheet

Retek Heavy-Duty Floor Epoxy

Description

Retek Heavy Duty Floor Epoxy is a two-component, solvent-based epoxy coating designed to provide an attractive, durable, and protective finish to new and existing floors. The coating is easy to clean and maintain and is supplied in pre-measured kit form. A wide range of colours is available.

Preparation is key!

Retek Heavy Duty Floor Epoxy is a heavy-duty flooring system suitable for application over new or existing substrates, including concrete, ceramic tile, wood, and metal. It can also be applied to vertical surfaces such as steps and walls.

A non-slip aggregate may be incorporated to create non-slip floors or walkways. The system is also suitable for demarcation lines and traffic safety markings.

Retek Heavy-Duty Floor Epoxy 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. Dropping sharp and/or heavy objects may damage the coating and the underlying substrate. This type of damage is not considered a coating or paint failure.

Suitable Areas of Application

Suitable as a floor and wall coating in the following environments:

- Warehouses
- Aircraft hangars and maintenance areas
- Production facilities
- High traffic areas
- Workshops
- Vehicle movement areas
- Cold rooms
- Industrial facilities





- Walkways
- Store rooms
- Food processing areas
- Battery, generator, and pump rooms
- Laboratories
- Garages
- Residential flooring etc...

Product Properties

- Easy application by mohair roller, brush, spray, or airless spray
- Resistant to hot tyre marking and tyre pick-up
- High durability coating with excellent mechanical strength
- Cures to a tough, long-wearing finish
- Water resistant
- Resistant to normal household cleaning chemicals (Do not use products containing ammonia).
- Typical dry film thickness: approximately 350 microns per coat (applied by roller)
- Available in a variety of colours (see our RAL colour chart)

Technical Data:

Colour

A variety of colours, view Retek's RAL colour chart.

Finish

Gloss finish

Mix Ratio

4 parts Part A : 1 part Part B

Activator

Retek Heavy Duty Epoxy – Part B (Hardener)

Typical Film Thickness

350microns thick per coat (applied by roller)

Theoretical Coverage

1kg – 2 to 3 sqm at +/- 350 microns; (applied by roller)

5kg – 10 to 12 sqm at +/- 350 microns; (applied by roller)

25kg – +/- 50 - 55 sqm at +/-350 microns (applied by roller)





Method of Application

Brush, Mohair / Epoxy Pile Roller, spray and airless spray

Number of Coats

We recommend 1 coat Epoxy Primer depending on how much the substrate absorbs a second coat might be required (helps create a pinhole free coating), and then 1 coat Heavy Duty Epoxy, In very high traffic areas, 1 coat Epoxy Primer and 2 coats Heavy Duty Epoxy

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 the Retek Heavy Duty Floor Epoxy achieves an attractive finish and long-lasting performance.

All surfaces must be clean, dry, and free from 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 before coating. Cold weather and high humidity may extend curing times.

Power-floated or hand-trowelled smooth (not polished) concrete is suitable for light traffic areas. For heavy traffic or abrasive environments, diamond grinding (surface grinding) is recommended to ensure optimal adhesion and durability. If the concrete surface is uneven, a concrete surface grinder should be used.

Inspect the substrate for cracks, holes, joints, and seams. Primer, epoxy, and 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 repair materials to fully cure
- Sand repaired areas flush using 60–80 grit sandpaper

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





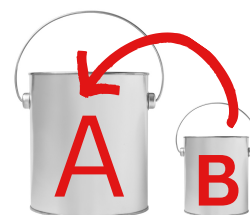
Application

Retek Heavy Duty Floor Epoxy 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 minimise air entrapment and prevent foaming. Stir periodically during application to prevent separation of the components.

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

The ideal application temperature is approximately 21°C.



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

When thinning for spray application only, use Retek Industrial Thinners. No other thinners are recommended.

Pot Life:

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

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, increased film thickness, or when multiple coats are applied.

- Touch Dry: Approximately 24 hours at $\pm 20^{\circ}\text{C}$
- Full Cure: Approximately 7 days
 - Low temperatures, increased coating thickness, or multiple coats may extend full curing time up to 21 days
- Light Traffic:
- Light traffic and work may resume once the coating is dry and shows no surface indentation. Proceed at own risk.

Pack Size:

1 kg Heavy Duty Epoxy - Two Part Kit: 800 g Part A (Base Product) : 200g Part B (Hardener)

5 kg Heavy Duty Epoxy - Two Part Kit: 4 kg Part A (Base Product) : 1 kg Part B (Hardener)

25 kg Heavy Duty Epoxy - 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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