

PRODUCT DATA SHEET
 RETEK HEAVY DUTY FLOOR EPOXY

Description:

Retek's Heavy Duty Floor Epoxy is a two-component solvent based epoxy. Retek's Heavy Duty Floor Epoxy is designed to provide an attractive protection coating to new and existing floors, which are easy to clean and maintain. We offer a variety of colours, which comes in a pre-measured kit form.

Recommended uses:

This is a heavy-duty flooring system which can be applied over your existing or new concrete, ceramic tile, wood and metal. It can also be installed on vertical surfaces such as steps and walls. A non-slip aggregate can be added to create a non-slip floor / walkway. Demarcation lines and traffic safety markings can also be applied.

- **Caution** dropping sharp and or heavy objects could cause damage to the coating and the substrate and will not be seen as paint failure.

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

- Warehouses
- Aircraft Hangers & Maintenance Areas
- Production Facilities
- High Traffic Areas
- Workshops
- Vehicle Movement Areas
- Cold Rooms
- Walkways
- Store rooms
- Food processing areas
- Battery, generator and pump rooms.
- Laboratories
- Garages
- Residential Flooring

Product Properties:

- Easily applied by Mohair Roller / Epoxy Pile Roller, brush, spray and airless spray.
- Resistant to hot tyre marking and pick up.
- High durability coating with excellent mechanical strength. (Dropping sharp and or heavy objects could damage the coating and the substrate)
- Cures to a tough coating, that takes years of wear.
- Water resistant
- Resistant to normal household cleaning chemicals.
- 250 Microns thick coating (per layer applied with roller)
- Available in a variety of different colours and or clear

- **Technical Data:**

Colour	A variety of colours, view Retek's RAL colour chart.
Finish	Gloss finish
Mix Ratio	4 : 1
Activator	Retek Heavy Duty Epoxy – Part B (Hardner)
Typical Film Thickness	250microns thick per coat (applied by roller)
Theoretical Coverage	1kg – 2 to 3 sqm at +/- 250 microns; (applied by roller) 5kg – 10 to 12 sqm at +/- 250 microns; (applied by roller) 25kg – +/- 60sqm at +/-250 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 (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 coating can only be as good as the surface it is bonding to. Good floor preparation is essential and will ensure that your Retek Epoxy Floor Coating looks great and lasts for years.

Surfaces must be clean, dry and free from oil's, grease, rust, dirt and any loose particles.

New concrete should be allowed to cure for 28 day's (cold weather and humidity may have an effect on drying time). Power floated or hand troweled smooth (not polished), concrete is ideal for light traffic areas but diamond grind (surface grind) is ideal for long lasting performance on heavy traffic or abrasive areas. If concrete surface is not smooth use concrete surface grinder.

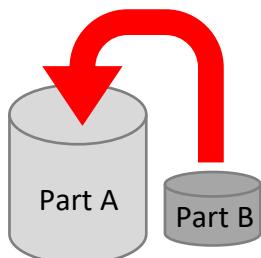
Identify any cracks, holes and joins in the surface. Please remember that primer/ epoxy / poly urethane is not intended to fill cracks / joins / level out uneven surfaces or hide imperfections in the substrate it is applied to. Concrete floors have joints and seams which allow for movement and expansion. Fill joints with joint sealer. Fill cracks and holes with Polycell Rock set. Allow filler materials to dry and then sand down to a flat surface with 60-80 grid sand paper.

Please refer to Retek's Application Process for more surface preparation information.

Application:

Retek's Heavy Duty Epoxy consists of two parts; Part A (Product), Part B (Hardner) and should be mixed at a ratio of Part A 4 : 1 Part B.

Mix Part B into Part A and stir well with a flat paddle or electric mixer. Try not to air rate the mixture to prevent foaming. Stir frequently to keep the chemicals from separating during the application.



Once mixed leave for 5 to 10 minutes and then start with the application. Ideal application temperature is 21°C.

Easily applied by Mohair Roller / Epoxy Pile Roller, brush, spray and airless spray. Use a brush for along edges, corners and touch ups.

To Thin Retek's Heavy-Duty Epoxy to spray **only** use Retek's Industrial Thinners.

Pot Life – Once mixed use within 2 hours.

Drying Information:

Wait 24 hours for the floor to dry, test the floor before you walk on it, cooler weather may take longer to dry.

- 24 Hours Touch dry at +/- 20°C
- Full curing time 7 days, however low temperatures, thickness and number of coating layers can extend curing time up to 21 days.
- As soon as coating is dry with no indentations on the coating light traffic and work may resume on the floor. Do so at own risk.

Pack Size:

1kg Epoxy Two Part Kit:	
0.800kg	Heavy Duty Epoxy
0.200kg	Hardner

5kg Epoxy Two Part Kit:	
4kg	Heavy Duty Epoxy
1kg	Hardner

25kg Epoxy Two Part Kit:	
20kg	Heavy Duty Epoxy
5kg	Hardner

Storage:

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

Safety instructions

Flammable liquid. Harmful or fatal if swallowed. Keep out of reach of children. Protect bare skin areas with gloves and other protective clothing. Use only with adequate ventilation. Inhalation of vapors must be avoided. Use an air respirator / full face mask. Do not pour leftover material into drain. Keep unwanted material in sealed container for disposal via special chemicals waste collections

Keep out of reach of children.

First Aid

If swallowed, do not induce vomiting. Drink water and seek medical help or contact Poisons Information Centre. If in eyes, flush with water for at least 15 min. Contact physician if necessary.

Product of Rock Hard Resins (PTY) LTD

5 Dave Nourse Street, Unitas Park, Vereeniging.