

Semi-Rigid Epoxy Sealant

RR1970®

PRODUCT

RR1970® is 100% solids, three-component, high-strength, fluid epoxy-based sealant. It is designed to fill and protect contraction joints in industrial floors with up to 10% movement exposed to impacts and heavy traffic situations.

USE SEGMENT

- Industrial floors;
- High-traffic warehouse floors;
- Repairs and treatment of cracks;
- Correction of damaged edges.

ADVANTAGES

- Easy to apply;
- High mechanical and chemical resistance;
- Excellent adhesion;
- Does not require primer;
- Impact resistant;
- High hardness.

APPLICATION

Apply the product by gravity over the joint channel until it is level or 1 to 2 mm above the floor surface.

To delimit and prevent leaks, use a depth limiter (tarucel) over the joint channel and masking tape on the edges.

The finishing can be done using a spatula or scraping with a cutting blade, removing the excess that is on the surface of the floor. In this case, let the material cure until it becomes solid (approximately 6 to 8 hours).

CLEANING

For good adhesion, the surface to be applied must be clean, free of cement, completely dry, and free of dust, contaminants and dirt (grease, oils, silicones).

The final result of the adhesion of the epoxy sealant to the joint walls is related to their cleanliness and integrity.

RR 1970® must be applied in joints up to 1.0 cm wide.

IDEAL MEASURE OF APPLICATION

Consumption	Width	Depth
0,153 kg/m	0,4 cm	2,4 cm
0,240 kg/m	0,5 cm	3,0 cm
0,345 kg/m	0,6 cm	3,6 cm
0,614 kg/m	0,8 cm	4,8 cm

Consumption (Kg/m) = [Depth (cm) x Width (cm) x Density (g/cm³)] / 10

NOTE: Cracks must be filled completely, covering the entire thickness of the floor or reaching the full depth of the crack.

PRODUCT PREPARATION

Pre-mix each component **A** (resin) + component **B** (hardener) until you get a uniform compound and then add component **C** (Mineral powder) and continue mixing until completely homogenized.

MIXTURE

Use a portable mixer or rod attached to a low-speed drill for 2 to 3 minutes.

The mixture of components **A** + **B** must be held in the container of component **A**.

NOTE: Do not split the product.

TOOLS FOR USE

- Low-speed portable mixer;
- Vacuum cleaner or blower;
- Spatula;
- Scraper with cutting blade;
- Brush;
- Masking tape;
- Depth limiter;

LIMITS OF APPLICATION

It should not be applied in external areas or on surfaces with humidity above 5%.

NEW FLOORS

It is recommended that the concrete reaches at least 70% of its final shrinkage. This estimated time for application is 180 days or more. The application should be done during the coldest period of the day or night, with the floor slabs contracted and the joints at their maximum expansion, thus contributing to low tensile deformations. If the phenomenon of separation or displacement of the edges occurs, this is not a failure of the material, but merely a separation to relieve stress. Premature filling of the joints will cause the product to break or detach laterally.

APPLICATION EXAMPLE



PHYSICAL PROPERTIES

Characteristics	Results
Aspect	Pasty
Color	Grey
Pot life 25°C / 77°F	45 minutes
Touch dry at 25°C / 77°F	3 to 4 hours
Light traffic release 25°C / 77°F	24 hours
Heavy traffic release 25°C / 77°F	48 hours
Final curing time 25°C / 77°F	7 days
Solids Content	100%
Density	1,60g/cm ³
Shore hardness A (7 Days at 77°F)	80/90
Elongation (ASTM-D638)	25 a 35%
Tension of rupture (ASTM-D638)	2 – 4 MPa
Packing	Kit 8 Kg

NOTE: The results presented above were obtained in tests carried out in the laboratory under ideal conditions, following current standards and internal procedures.

CLEANING TOOLS

Tools must be cleaned after application using 95% alcohol or toluene.

WARRANTY: Reis e Reis guarantees the quality and freedom from manufacturing defects, as long as the product is correctly applied, respecting the conditions of this Technical Sheet.

HEALTH AND SAFETY

Use protective glasses and rubber gloves. Direct contact with the skin should be avoided (can cause irritation). In case of contact with the skin or eyes, wash immediately with abundant water and consult a doctor. Keep out of the reach of children and animals.

STORAGE

RR 1970[®] should be stored in a dry, covered and ventilated location at around 77°F (25°C), in the original packaging.

VALIDITY

9 months from date of manufacture