

## Epoxy-Based Resin Mortar

# RR1971

### PRODUCT

RR 1971 is an epoxy-based resin with three components and mineral and metallic aggregates. It was developed for joint edges reinforcement, corrections and repairs in general. Due to the excellent characteristics and performance, it is indicated to be used in industrial floors, highways with high traffic and with high impact.

### SEGMENTS OF USE

- Localized corrections and repairs;
- Reinforce joint edges that break off due to hard wheels cart traffic.

### ADVANTAGES

- Excellent adhesion to concrete;
- High mechanical resistance;
- High chemical resistance;
- Elevated impact resistance.

### CONDITIONS OF THE SUBSTRATE

Tensile strength of the substrate to pullout	≥ 1,0 MPa – NBR14050
Substrate humidity not higher	5%
Substrate temperature	59°F to 95°F
Room temperature	59°F to 95°F
Lower relative humidity	176°F

### PREPARATION OF THE SURFACE

The cut of the joint and its depth should be done with specialized equipment (Clipper Saw) by skilled professionals, always obeying the design or technical data sheet for this recommendation. The canal cleaning should be done accurately, eliminating dust, moisture and contaminants (grease, oil, etc.).

For this it's recommended the use of cleaning wire brush, vacuum cleaner or compressed air for better efficiency, and also the use of ethanol with the aid of brushes.

### LIMITATIONS FOR APPLICATION

In new floors we recommend that the concrete has at least 20 to 30 days of curing. We recommend that the application should be carried out at low temperature to take advantage of the maximum opening of the expansion of the joints, avoiding deformations due to retraction.

### APPLICATION

It should be initiated using **RR1971P Primer** for better efficiency in anchoring. Apply the mortar while the **Primer** is still wet.

### PREPARATION OF THE PRODUCT

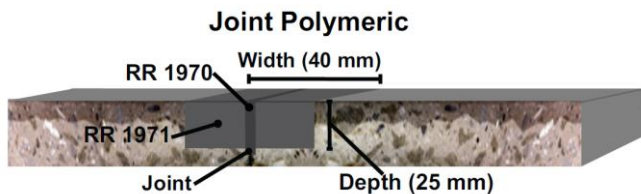
The product consists of three components. One must consider the total mixture: components A + B + C using either a manual or mechanical mixer until a perfect homogenization. The resulting mortar shall be poured and spread with the use of a brick trowel, spatula or hand float by pressing it. Upon drying, make the finish by sanding the surface until it gets smooth. After this process, using a Clipper Saw, cut right on shaft a joint to relieve the tensions. Treat the open joint with flexible sealants or semi-rigid epoxies.

**NOTE:** Use the kit **RR 1971** on the whole, **do not fractionate it.**

## MEDIUM CONSUMPTION

Packaging	Depth	Width
1,53 Kg/m	2,00 cm	4,00 cm
1,92 Kg/m	2,00 cm	5,00 cm
2,30 Kg/m	2,00 cm	6,00 cm
1,92 Kg/m	2,50 cm	4,00 cm
2,40 Kg/m	2,50 cm	5,00 cm
2,88 Kg/m	2,50 cm	6,00 cm

Consumption (kg/m) = Depth (cm) x Width (cm) x density (g/cm<sup>3</sup>) / 10



## CHARACTERISTICS AND YIELD

PROPERTIES	Part A	Part B	Part C	Mixture
Color	Resin	Hardener	Quartz	Gray
Pot life at 77°F (25°C)				30 to 40 min
Dry to the touch at 77°F (25°C)				3 to 4 hs
Time to final cure at 77°F (25°C)				7 days
Free for light traffic				24 hs
Free for heavy traffic				48 hs
Package				Kit 18 Kg

## THYSICAL PROPERTIES

CHARACTERISTICS	RESULTS	STANDARDS
Density	1,92 g/cm <sup>3</sup>	Met.RR – 011
Compression	80±5 MPa	NBR 12041
Resistance to abrasion	1,49 – 1,62 mm	NBR 12042
Traction in flexion	43 ± 5 MPa	NBR 12142

**Note:** The results are parameters of rules in the ideal conditions.

## 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.

## PACKING

Kit 18 Kg

## STORAGE

RR 1971 should be stored in a dry and ventilated location at a temperature below 86°F (30°C).

**VALIDITY:** 9 months

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Our technical advice concerning the application of the product is made verbally, in writing and through demonstration depending on the interest of the customer.

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