

**Formerly  
Reagen G174 RAPID**

## Product Data

### Composition

Epoxy resin cured with a modified polyamine.

### Volume Solids (ASTM)

c.100%

### Covering Capacity

Typically 4 m<sup>2</sup>/kg depending on porosity of substrate (equivalent to 4.4m<sup>2</sup>/litre).

1.2 kg/m<sup>2</sup> scratch filler mix (0.4 kg/m<sup>2</sup> resin + 0.8 kg/m<sup>2</sup> sand) at c.0.7mm.

### Recommended Film Thickness

Not applicable.

### Mixing Ratio

100:37 by weight (Base: Hardener).

100:41 by volume (Base: Hardener).

### Pot Life

c.15 minutes at 20°C

c.30 minutes at 10°C

### Shelf Life

12 months, stored under cool, dry conditions in original, unopened packs

### Drying Time

The coating can be walked on after

3 hours at 20°C and 6 hours at 10°C.

Full mechanical and chemical resistant properties are attained after 4 days.

### Overcoating Interval

Minimum: 3 hours at 20°C and 6 hours at 10°C. Maximum: 48 hours at 20°C (with epoxies), 36 hours (with PUs). To ensure good adhesion, must be sprinkled with kiln dried quartz sand 0.1-0.7 mm (c.0.3 kg/m<sup>2</sup>)

### Application

Brush, roller, trowel or squeegee.

### Heat Resistance

Withstands continuous dry heat up to 100°C

### Flash Point

Base: 68°C

Hardener: 130°C

Mixed: 68°C

### Colour

Colourless.

### Packages

10.8 kg (equivalent to 9.9 lts)

(7.9 kg base, 2.9 kg hardener)

### Weight per Litre

1.1 kg mixed.

### Solvent/Cleaner

Clean equipment thoroughly immediately after use with Thinner 11223.

## Betonol G174/Rapid Epoxy Sealer

A fast curing, high penetration, two pack epoxy coating for sealing concrete, plaster, mortar and timber products prior to the application of Betonol Coatings. Due to the rapid curing properties, same day overcoating is possible. Also suitable for application at lower ambient and substrate temperatures. May also be adapted for use as a scratch filler.

The product complies with the requirements of the Environmental Protection Act 1990, Guidance Document PG6/23 for a VOC < 250 g/litre (General Primers), and the EU Decopaint (2029/42/EG) and VOC (1999/13/EC) Directives for product category 11A/j type Lb for VOCs < 550g/litre (from 1.1.07) and < 500g/litre (from 1.1.2010).

## Surface Preparation

Surfaces should be cleaned and roughened by shot blasting (eg. blastrac), grinding, or equivalent method, then vacuum cleaned. The substrate must meet recognised building standards, ie. be solid, load-bearing, adherent, free from laitance, oil, fats, wax, water repellent agents or contaminants detrimental to adhesion. The test result for residual moisture must be below 4%. Pull off adhesion strength should be > 1.5N/mm<sup>2</sup> on average with a minimum value > 1.0N/mm<sup>2</sup>. Areas to be subjected to heavy wear or point loading should be > 2.0N/mm<sup>2</sup> on average, with a minimum value > 1.5N/mm<sup>2</sup>. For heavily soiled surfaces or chemically contaminated areas, special cleaning methods may be necessary - as approved by HCC.

## Application Method

Combine base and hardener at the specified mixing ratio, continue stirring until fully blended using a powered mixer operating at slow to moderate speed. Transfer to a clean container, then mix again. Particular care should be taken not to exceed the stated pot life. At temperatures above 20°C the pot life will be seriously reduced. Use immediately. For use as a scratch filler add 2 parts by weight of kiln dried quartz sand (0.1-0.7mm) to 1 part of the resin mixture, stirring until fully blended.

**Caution:** If the base component is found to have become hazy or opaque, this may be indicative of crystallisation. In this instance affected containers should be warmed to 30-40°C for c.12 hours, then allowed to cool, in order to stabilise the material.

### Brush, Roller or Squeegee

Apply an even primer coat taking care to avoid pooling or sags and runs on vertical surfaces. The material will penetrate the substrate. On particularly absorbent substrates, a further coat may be necessary. After application and before the surface has dried, sprinkle on a dusting of kiln dried quartz sand (0.1 - 0.7 mm) at approximately 0.3 kg per m<sup>2</sup>. This is essential for adhesion of subsequent coatings. When overcoating with Betonol G172/A or G579/Aqua Conductive Primers, use quartz sand (0.1 - 0.4 mm).

### Trowel

Apply scratch filler mix, skimming over the peaks in the substrate. Then scatter kiln dried quartz sand as outlined above.

Do not apply when relative humidity exceeds 80% and condensation is likely. Application should be stopped when the temperature falls below 5°C. Only apply coating when the substrate temperature is 3°C or more above the dew point. Loss factors based on the nature of the surface and the chosen application method should be applied to obtain a practical covering capacity.

The product is designed for industrial use only. Improper work practices or negligent product handling may be dangerous to health and create risk of fire or explosion. Appropriate safety regulations, MSDS and hazard warning labels must be fully observed.

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