PRIMER GC

Epoxy primer for green concrete

DESCRIPTION AND APPLICATION

Epoxy resins are excellent adhesive material, very useful as primers for flooring applications. Primer GC is a high-solids, consisting of 2 pre-dosed components.

Primer GC is a useful product for recently cast concrete sealing prior to treatment with waterproofing or seamless resin flooring products.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Epoxy resin+filler	Polyamine mixture
Physical state	Liquid	Liquid
Packaging	Metal container 11.7 kg	Metal container 3.3 kg
Non-volatile content (%)	Approx. 100%	100%
Flash point	120ºC	>100ºC
Colour	Grey	Slightly yellow

Density

Temp (ºC)	Density (g/cm3)
25	1,14

Temp (ºC)	Density (g/cm3)
25	1,05

Viscosity

Approximate values Brookfield

Temp (ºC)	Viscosity (mPa.s)
15	7000
25	3250
35	2000

Temp (ºC)	Viscosity (mPa.s)
15	860
25	450
35	250

VOC	7 g/L, 0.7% — 0
A/B mixing ratio	A=100, B=28.2 by weight A=100, B=43.2 by volume
Mixture properties	Density: 1,37 g/cm3 at 23ºC Viscosity: 750 mPa.s at 23ºC
Pot life	22 min (200g, 25ºC)
Storage	Keep between 10º and 30ºC. Component A may crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original condition by heating it to 70 - 80 °C and stirring it thoroughly.
Use before	12 months after manufacturing date.

INFORMATION ON THE FINAL PRODUCT

Final state	Solid menbrane
Colour	Grey
Hardness (shore)	80D
Mechanical properties	Maximum elongation: 7,5% Tensile strength: 23 MPa (EN-ISO 527-3)
Solid film density	1,15 g/cm3
Adhesion strength	

Surface	Adhesion strength (MPa)
Wet Concrete	>2.5

Use temperature	Up to 80ºC

SUPPORT REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:
1. Flat and levelled (Product is self-levelling)
2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/mm2).
3. Even and regular surface
4. Free from cracks and fissures. If any, they must be previously repaired.
5. Clean, free of dust, loose particles, oils, organic residues.

RECOMMENDED ENVIRONMENTAL CONDITIONS

Support temperature should be between 5ºC and 40º. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice.

SURFACE PREPARATION

Remove all dust and loose material before priming..

MIXING

Stir and homogenise thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous clear liquid. Do not mix more material than the amount usable within the pot life window. Mixing with quartz sand is possible for other intended uses.

APPLICATION

As a primer:
Apply 200 to 500 g/m2 of undiluted product. Other quantities are possible when used with dilution. Use brush or roller.

CURING TIME

Application tested: 500 g/m2: 2.5-3h at 23ºC

REAPPLICATION

A second coat is possible as soon as the first one is dry to touch, and within the following 24 hours.

TOOL CLEANING

Use solvent Rayston for both components.

SAFETY

Epoxy components are potentially sensitizing. Component B is corrosive. Always follow instruction provided in the Material Safety Data Sheet. As a general rule, suitable skin and eye protection must be worn. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containes still have some material left, do not mix with other product before considering the risk of potential dangerous reactions. Never mix in volumes larger than 5 litres in order to prevent a dangerous heat evolution

OTHER INFORMATION

The information contained in this DATA SHEET, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.
We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests “on-site” in order to determine their convenience for a specific project.
Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.
This data sheet supersedes previous versions.

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