



## High thixotropy epoxy primer for wet concrete

### DESCRIPTION AND APPLICATION

Two-component epoxy resin, solvent-free, highly thixotropic and fast curing. Can be applied in a single thick layer with brush, roller or airless spray gun, horizontally and vertically. It has a good adhesion over porous supports (concrete, mortar, fiber cement) even with a high level of humidity, but without water stagnation.

Adhesion primer and sealer for the porosity of concrete substrates, so that later can be treated with liquid-applied elastomeric waterproofing membranes or flooring coatings (including self-levelling mortars).

### TECHNICAL DATA

#### INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B		
<b>Chemical description</b>	Epoxy resin	Polyamine mixture		
<b>Physical state</b>	Liquid	Liquid		
<b>Packaging</b>	Metal container 11.7 kg	Metal container 3.3 kg		
<b>Non-volatile content</b>	Approx. 100%	100%		
<b>Flash point</b>	120°C	>100°C		
<b>Colour</b>	Grey	Slightly yellow		
<b>Density</b>	Tempera ture (°C)	Density (g/cm <sup>3</sup> )	Tempera ture (°C)	Density (g/cm <sup>3</sup> )
	25	1,12	25	1,01
<b>Viscosity</b>	Tempera ture (°C)	Viscosity (mPa.s)	Tempera ture (°C)	Viscosity (mPa.s)
	25	3250	25	480
<b>VOC (g/L and %)</b>	7,5 g/L, 0,5%	0		
<b>A/B mixing ratio</b>	A=100, B=28.2 by weight A=100, B=43.2 by volume			
<b>Mixture properties</b>	Density: 1,37 g/cm <sup>3</sup> at 23°C Viscosity: 750 mPa.s at 23°C			
<b>Pot life</b>	22 min (200g, 25°C)			
<b>Storage and use before</b>	Keep between 10° and 30°C. Under certain storage conditions, component A may crystallize. If this occurs, it can be reverted to the original state by heating up to 70-80°C and afterwards homogenizing completely. Expiration date: 12 months from its manufacture.			

#### INFORMATION ON THE FINAL PRODUCT

<b>Final state</b>	Solid coating
<b>Colour</b>	Grey
<b>Hardness (Shore)</b>	75-80D (ISO 868)
<b>Solid film density</b>	1,15 g/cm <sup>3</sup>
<b>Mechanical properties</b>	Maximum elongation: 7,5% Tensile strenght: 23 MPa (EN-ISO 527-3)

### ADHESION TO VARIOUS SUBSTRATES

Surface	Adhesion (MPa)
Wet concrete	>2,5

### USE TEMPERATURE

Stable up to 80°C.

### SUPPORT REQUIREMENTS

To achieve a good penetration and bonding, a porous support (concrete, for example) must be:

1. Flat and levelled.
2. Compact and cohesive (pull off test must show a minimum resistance of 1,5 N/mm<sup>2</sup>).
3. Even and regular surface. Totally continuous.
4. Free from cavities, cracks and fissures. If any, they must be previously repaired (filled in with a polyurethane mastic, for example).
5. Fully cured.
6. Clean, free from dust, loose particles, oils, organic residues, silicones or laitance.

### RECOMMENDED ENVIRONMENTAL CONDITIONS

The minimum recommended support temperature for the application is 5°C. If the temperature is above 45°C, please ask for the manufacturer instructions.

### SUPPORT PREPARATION

Concrete supports must be prepared mechanically using an abrasive jet or scarifying to remove the outer part of the surface. Supports can also be sanded with a diamond machine to achieve an open pore and thus improve the adhesion of the applied system.

Sharp peaks should be eliminated with a grinder. Remove all dust, loose particles and non-well adhered materials from the surface with a brush, broom and/or vacuum cleaner.

### MIXING

Mix and homogenize the two components with a low-speed electric mixer, avoiding introducing air into the resin. The mixture of the two components must have a homogeneous appearance. Prepare only the amounts that can be applied within the pot life period.

### APPLICATION

Apply a layer of 0.3 – 0.5 kg/m<sup>2</sup>, depending on the absorption of the support. It is important to achieve a fully sealed surface without porosity. Otherwise, an additional layer will need to be applied.

### CURING TIME

The drying time depends on the environmental conditions at the time of application. A layer of up to 500 g/m<sup>2</sup> will take 2.5-3 hours to cure at 23°C.

### 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 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 contains still have some material left, do not mix with other product before considering the risk of potentially dangerous reactions. Never mix in volumes larger than 5 litres to prevent a dangerous heat evolution



# PRIMER GC THIXO



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### **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" 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.**



### **KRYPTON CHEMICAL SL**

C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies  
43890 - l'Hospitalet de l'Infant - España  
Tel: +34 977 822 245 - Fax: +34 977 823 977

[www.kryptonchemical.com](http://www.kryptonchemical.com) – [rayston@kryptonchemical.com](mailto:rayston@kryptonchemical.com)

Latest update:

06/08/2024

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