Torggler

FLEX PU PRIMER 2K

Two-component water-based primer/coating.

- Easy to apply and clean
- Odourless, safe and non-flammable (zero VOC)
- Suitable for indoor applications
- Water-repellent barrier
- Strong adhesion on wet or green concrete, iron, galvanized steel, aluminium, glass and wood
- Good mechanical properties and abrasion resistance.

FEATURES

Flex PU Primer 2K is a two-component, water-based epoxy coating certified as "Class III" water and moisture barrier, making it ideal for applications subject to negative pressure/moisture increase. Flex PU Primer 2K is easy to use and safe (zero VOC).

AREAS OF APPLICATION

Flex PU Primer 2K is indicated as:

- Primer in applications with increasing humidity / negative pressure (tanks, pools, foundations, etc.)
- Primer for other systems, e.g. epoxy or cement-based polyurethanes
- Sealing coating for concrete
- Adhesive layer between old and new concrete
- Water and moisture barrier.

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WARNINGS
Although Flex PU Primer 2K is solvent-free, it is recommended to observe and comply with standard safety regulations: apply in well-ventilated, non-smoking areas and away from open flames. In closed environments use fans and active carbon masks.
The product is for professional and industrial use only.

Do not apply Flex PU Primer 2K at temperatures below +10 °C.
Hot concrete should be wetted before application.

WAITING TIMES
The workability time of the mixed product is a maximum of 1 hour at 25 °C.

PRODUCT PREPARATION
Mix the two components well. Add water 10-30%. Mix by hand or with a mixer at low speed (300 rpm).

INSTRUCTIONS FOR USE
As Primer: apply Flex PU Primer 2K only in thin layers with roller in one or two coats for a total consumption of 150 g/m^2.
As water/moisture barrier: apply Flex PU Primer 2K with roller in three coats for a total consumption of 600 g/m^2.
Do not exceed the recommended consumption as it may adversely affect adhesion and durability.

The covering time is highly dependent on weather conditions and cannot be determined in terms of hours: during the summer period it may take 5 hours while in the winter period it can take up to 24 hours. Use the following rule to determine when the coating should take place: once the colour on the coat goes from milk white to transparent. Also check that the layer is hardened to the extent that it can no longer be pierced by a nail.

Take care to clean the tools and equipment first with sheets of paper and then with solvent. Under no circumstances should they be reused for mixing and/or applying polyurethane products.

CONSUMPTION
As Primer: apply Flex PU Primer 2K only in thin layers with roller in one or two coats for a total consumption of 150 g/m^2. As water/moisture barrier: apply Flex PU Primer 2K with roller in three coats for a total consumption of 600 g/m^2. Do not exceed the recommended consumption as it may adversely affect adhesion and durability.

STORAGE
Store Flex PU Primer 2K in a dry and sheltered place. When stored at a temperature between +5 and +25 °C in its original unopened package it will keep for at least 12 months. Once opened use as soon as possible.

PACKAGING
4 kg bucket (component A: 1.0 kg + component B: 3.0 kg).

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS OF THE LIQUID PRODUCT	
Appearance	Comp. A: liquid Comp. B: viscous liquid
Colour	Comp. A: colourless Comp. B: transparent
Mixture viscosity (Brookfield) (ASTM D2196-86 at 25 °C)	3.500 cP
Specific weight (ASTM D1475 / DIN 53217 / ISO 2811 at 20 °C)	1,0 g/cm³
Mixing ratio comp. A : comp. B	1 : 3
Drying time (at 25 °C and 55% R.H.)	5-6 hours
Complete drying	7 days
Covering time	variable: once the colour on the coat goes from milk white to transparent and after verification of hardening to the extent that it cannot be pierced with a nail.
Workability time	maximum 1 hour (at 25 °C)
Consumption	as a Primer: 150 g/m² as a water/moisture barrier: 600 g/m²

TECHNICAL SPECIFICATIONS OF THE HARDENED PRODUCT	
Application temperature	from +10 °C to +40 °C
Water vapour transmission (EN ISO 7783-2)	3.9 g/m²*24 h Class III (low, <15)
Water transmission (NF EN 1062-3)	0,003-0,006 kg/m²*h0,5 Class III (low, <15)
Adhesion to concrete (ASTM D4541)	>30 kg/cm² (>3 N/mm²)
Friction resistance (ASTM D4541)	20-30 min (at 25 °C)
Service temperature	from -40 °C to +90 °C
Adhesion (ASTM D4541)	120*10-³ g

The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at www.torggler.com. Version 02.2020