



PROFIX 80

PRODUCT DESCRIPTION

PROFIX 80 is a waterproof three-component epoxy-cement plaster with very high adhesion. Particularly suitable for preparing wet substrates.



PRODUCT APPLICATION

- Preparation of cementitious substrates with high residual moisture (maximum value 10%), even if not fully cured, particularly when coating with moisture-sensitive systems
- Low-thickness skimming of uneven surfaces, for small, localised repairs, when supplemented with quartz sand
- Impermeable substrate for water retaining structures, suitable for the application of paints, synthetic coatings and polymer-modified levelling compounds
- Waterproof coating of tanks, gullies and liquid containment structures in general

ADVANTAGES

- High adhesion on hardened or uncured concrete, dry or wet, on screeds even if helicopter-smoothed, ceramic or marble floor tiles, natural stone, plaster
- Enables subsequent coating with epoxy, polyurethane or polymer-modified coatings
- Removes dust from cement-based surfaces
- Solvent-free product
- Easy and quick application
- It can be added with quartz sand to increase its mechanical strength and increase the application thickness
- It adjusts surface absorption

PREPARATION AND APPLICATION **Preparing the surface**

The cement surface must have a minimum compression resistance equal to 15 N/mm², complete absence of free water, and its surface relative humidity must not be higher than 10% (measured with a Storch electric hygrometer).

Thoroughly clean the surfaces by brushing or pressure washing to remove all traces of dust, dirt, salt deposits, efflorescence and loose parts.

In the case of old ceramic floors, tiles etc., check that they are fully bonded to the substrate.

Restore missing parts or seal any cracks by applying a suitable cement-based levelling compound.

Preparing the product

Pour component B (base) into a suitable container (minimum 14 l) and add component A (reagent), mixing with a low-speed mixer until completely homogenised, then slowly add component C (powder) with the mixer running until a homogenous, lump-free mixture is obtained.

Once the three components have been mixed, depending on the degree of workability to be obtained and the tool to be used, dilute with water up to a maximum of 10% by weight (equal to max. 2 liters of



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water).

In order to increase the mechanical resistance and increase the application thickness, quartz sand 0.1-0.6 up to a maximum of 30% by weight can be added after mixing, pouring it slowly and with the mixer running until completely homogenised.

Should it be required to prepare small quantities of product, it is recommended to strictly comply with the weight ratio of the three components.

Mixing by hand is not recommended in any case.

Application

The mixed product should be applied evenly in two or more crossed coats by brush, spatula or VOLTECO ROLLER, with an interval between them of at least 4-6 hours.

The number of coats varies depending on the type of tool used and its dilution with water in order to achieve a minimum thickness of 1 mm.

On particularly absorbent substrates, apply a first preventive pore-tightening coat. As soon as the surface is touch dry, it will be possible to proceed with subsequent coats.

Protect it from rain for at least 12 hours.

Once the application is complete, wait at least 24 hours before proceeding with further processing.

CONSUMPTION AND YIELD

Product A+B+C: approx. 1.5 kg/m² per millimetre thickness depending on the porosity of the substrate.

PACKAGING AND STORAGE

The product is supplied in 20 kg packages:

Component A (reagent) 2.2 kg

Component B (base) 8.2 kg

Component C (powder) 9.6 kg

The product must be stored in a dry place without being exposed to frost and heat (at a temperature between +10°C and +30°C) and direct exposure to the sun before being applied.

Under these conditions it has a shelf life of 12 months.

WARNINGS - IMPORTANT NOTES

Do not apply the product on wet surfaces.

Avoid direct exposure to the sun before application.

After mixing, the product must be strictly used within the specified service life; beyond this limit, it cannot be used even if it has an adequate viscosity.

Do not add water to the mix during application if the product loses workability.

High temperatures in the room and on the surface reduce the product's pot life.

Low ambient temperatures and/or very humid air prolong the product's drying and curing time.

The preparation and installation data refer to normal environmental conditions (temperature +20°C; relative humidity 60%).

Clean tools with water while the product is still fresh.

PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Values
Appearance	white powder - white liquids
Mixture consistency	viscous fluid
Application temperature	from +10°C to +30°C
Workability time at +20°C	35-40'
Overapplication time	minimum 24 hours to maximum 10 days
Maximum aggregate size	0.7 mm
Mixture ratio	16 parts of component A 60 parts of component B 70 parts of component C

Feature	Test method	Performance requirements UNI EN 1504-2	Declared performance	Certified performance (**)
Specific weight			> 1.70 kg/l	
Bond strength	UNI EN 1542	≥ 1 MPa	≥ 1 MPa	3.07 MPa
Capillary absorption	UNI EN 1062-3	< 0.1 kg*m ⁻² *h ^{-0.5}	< 0.1 kg*m ⁻² *h ^{-0.5}	0.007 kg*m ⁻² *h ^{-0.5}
Water vapour permeability	UNI EN 7783-2	Class 1 - Sd ≤ 5 m	-	SD = 1.24 m



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Feature	Test method	Performance requirements UNI EN 1504-2	Declared performance	Certified performance (**)
<i>(equivalent thickness: Sd)</i>				
Reaction to fire	UNI EN 13501-1	Classification	-	Class Bfl-s1
Feature	Test method	Performance requirements	Declared performance	
Water impermeability	UNI EN 14891 Met. A.7	150 kPa	150 KPa	
Feature	Test method	Certifying body	Certified performance (**)	
Impermeability in negative pressure <i>(concrete structure Water/Concrete: 0.7)</i>	UNI EN 12390-8	IMM SA (Switzerland)	8 Bar: no passage	

The quoted data are obtained in a laboratory at +20 °C and 60% RH.

SAFETY

Refer to the related Safety Data Sheet.

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23 DOP 0039 EN 1504-2:2005 1370-CPR-1299 PROFIX 80	
Protection systems of the concrete surface: Moisture content control (MC) and increased resistivity (IR) coating	
Reaction to fire: Class Bfl-s1 Water vapour permeability: Class I Capillary absorption and permeability to water: < 0.1 kg*m ⁻² *h ^{-0.5} Adhesion: ≥ 1 MPa Thermal compatibility: - Part 1: Un/freezing cycles: NPD - Part 2: Thunderstorm cycles (thermal shock): NPD - Part 3: Thermal cycles without immersion in de-icing salt: NPD Crack bridging properties: NPD Performance after exposure to the action of artificial atmospheric agents: NPD Methods of conditioning before testing (7 days at 70°C): NPD Linear shrinkage: NPD Coefficient of thermal expansion: NPD Cross cut: NPD Slip resistance: NPD Antistatic behavior: NPD Adhesion on wet concrete: NPD Hazardous substances: See SDS	

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