



PROFIX 80

PRODUCT DESCRIPTION

PROFIX 80 is a waterproof three-component epoxy-cement primer 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
- Adhesion promoter for substrates such as concrete, screeds even if helicopter-smoothed, ceramic or marble floor tiles, natural stone, plaster...
- Strengthening product for cement-based screeds with loose surface parts
- 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 cementitious levelling compounds

ADVANTAGES

- High adhesion on hardened or uncured concrete, dry or wet
- Liquid impermeable
- 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.

In order to increase the mechanical resistance and increase the application thickness, quartz sand



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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, proceed with subsequent changes no sooner than 24 hours.

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.

The product, once mixed, must absolutely be 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 |

| Specification | Test method | Performance requirements UNI EN 1504-3 Class R3 | Declared performance | Certified performance (**) |
|---------------------------|----------------|---|---|--|
| Specific weight | - | - | > 1.70 kg/l | - |
| Shrinkage | - | - | controlled | - |
| Bond strength | UNI EN 1542 | ≥ 1 MPa | > 1 MPa | 3.07 MPa |
| Chloride ions content | UNI EN 1015-17 | ≤ 0.05% | - | 0.01% |
| Capillary absorption | UNI EN 1062-3 | ≤ 0.1 kg*m ⁻² *h ^{-0.5} | < 0.1 kg*m ⁻² *h ^{-0.5} | 0.07 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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(equivalent thickness: Sd)

| | | | | |
|------------------|----------------|----------------|---|--------------|
| Reaction to fire | UNI EN 13501-1 | Classification | - | Class Bfl-s1 |
|------------------|----------------|----------------|---|--------------|

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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|---|--|
|  | VOLTECO S.p.a Via delle Industrie, 47 - 31050 Ponzano Veneto (I) |
| 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: $< 0.1 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0.5}$ Adhesion: $\geq 1 \text{ MPa}$ Thermal compatibility: <ul style="list-style-type: none">• 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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