



PAINT PROTECTION

PRODUCT DESCRIPTION

PAINT PROTECTION is protective paint based on acrylic resins in water emulsion with excellent resistance to water and aggressive atmospheric agents, good breathability, and effective anti-carbonation action, capable of neutralizing corrosion phenomena of the reinforcements.



PRODUCT APPLICATION

- Waterproof protection for hydraulic binders-based plasters, even if microcracked
- Waterproof and anti-carbonation protection for reinforced concrete structures, even if minor deformations are present, such as walls, parapets, risers of balconies and concrete structures in general cast on site or prefabricated
- Waterproof protection for thermal insulation systems
- Protective and decorative coating on mineral surfaces

ADVANTAGES

- Extremely effective anti-carbonation barrier to protect the concrete
- Excellent resistance against aggressive physical and chemical atmospheric agents (ex: wind, smog, etc)
- Highly resistant to UV rays
- Vast range of colours available
- Good deformability
- Adheres firmly to mineral-based surfaces, even if painted
- Low dirt pick up
- Excellent water repellency and vapour permeability

PREPARATION AND APPLICATION Preparing the surfaces

Surfaces with the presence of mould, algae and fungi

Thoroughly pressure blast the surfaces to remove any micro-organisms, wait for them to dry and apply an undiluted coat of PROCLEAN disinfectant treatment (see relative data sheet), then wait at least 2-3 hours after applying the base product before applying the following PAINT PROTECTION.

Surfaces coated with CP1/CP0

Wait for complete curing, then clean any build-up or dust from the surface by brushing or low-pressure washing.

When the surface is dry, apply PROFIX 40 (see related technical sheet) in the same colour as the PAINT PROTECTION finish.

It is only possible to leave out PROFIX 40 if the colour of the surface and the PAINT PROTECTION colour are identical or slightly different.



PAINT PROTECTION

Existing concrete surfaces in good state or newly-built

Scarify any surfaces where there are loose parts, even if partially detached, efflorescence and dust or grease.

Then high-pressure clean.

Clean any exposed reinforcement bars and passivate them with SANOFER and repair deteriorated parts with FIBROMIX 40, FLEXOMIX 30 or FIBROeRASO (see the relative technical data sheets).

To repair the surface, level all of the surfaces with FIBROeRASO.

When the surface is dry, apply the specific PROFIX 40 in the same colour as the PAINT PROTECTION finish.

Only if the colour of the surface and the colour of PAINT PROTECTION are identical or slightly different, apply PROFIX 20 (see relative data sheet).

Surfaces such as deteriorated, powdery or weakened plasters

Remove the inconsistent or detached parts from the surface by brushing and thorough pressure-washing and restore.

Apply PROFIX 30 (see relevant technical data sheet) with fixative effect on all surfaces except restorations.

Wait at least 24 hours after completing repairs and level all of the surfaces with X-LIME/FIBROeRASO or CP1/CP0 (see relative technical data sheets).

Existing surfaces in good state or newly-built, such as: plaster, repair and levelling mortars in general, reinforced levelling compounds and thick coatings, paints and varnishes.

Wait for the newly prepared surfaces to cure completely.

Apply PROFIX 40 in the colour corresponding to the PAINT PROTECTION finish or, in case of equivalence or slight difference between the colour of the substrate and the colour of PAINT PROTECTION, apply PROFIX 20 to unify the absorption.

Preparing the product

PAINT PROTECTION is ready to use. If required, it can be diluted with a up to 10% water.

Thoroughly mix PAINT PROTECTION, possibly with a low-speed whip-fitted drill before use.

Application

Apply the first layer of PAINT PROTECTION on the dry surface, using brush, roller or airless machine, continuously wet on wet so as to prevent shading in the overlapping areas.

Leave to set for 24 hours in normal humidity and temperature conditions (room temperature +20°C; room humidity 60%) and then apply the second layer in the same way.



References available at www.volteco.com

CONSUMPTION AND YIELD

A bucket of PAINT PROTECTION will cover approx. 35 m², which is based on a theoretical consumption of two layers of about 0.4 l/m².

PACKAGING AND STORAGE

PAINT PROTECTION is packed in 14 l buckets.

The product must be stored in a dry place without being exposed to frost and heat (maximum temperature: 35°C) or direct exposure to the sun before being applied.

Storage time 12 months.

WARNINGS - IMPORTANT NOTES

Do not apply the product in direct sunlight.

Do not apply PAINT PROTECTION while it is raining or on wet surfaces.

Do not apply the product to fresh and potentially alkaline surfaces.

If PAINT PROTECTION is applied in unsuitable weather conditions, the curing times will be affected, thereby compromising the achievement of optimal aesthetics and performance characteristics.

During the application phases, it is advisable to use tarps on the scaffolding to create shade and provide protection against sunlight, wind and any rain.

Do not use PAINT PROTECTION to coat tanks or water containers.



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Do not apply on gypsum-based surfaces.

The final paint colour may vary slightly from that of the sample or the colour selected from the colour chart.

It is therefore recommended to always paint a test area before starting the actual job.

Minor variations do not constitute the right to make a claim.

There may be slight shade variations in various production batches; it is therefore recommended to use colours of the same batch to paint one surface.

When the application of PAINT PROTECTION is finished, rain, night condensation, fog or high humidity in general could cause white-ish, translucent streaking ("snail streaks").

This temporary phenomenon does not affect product performance and can be easily eliminated with pressure washing or waiting for the next rainfall.

Clean the tools well with water after use and remove dry paint with a nitro thinner.

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

PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Values
Appearance	matt semi-glossy
Drying time at +25 °C and 60% R.H.	
dry dust free	60'
through dry	16÷24 hours
Working temperature	-5 °C +50 °C
Application temperature	-5 °C +35 °C
Specific weight	1.45 kg/l
Final thickness	250÷300 micron

Feature	Test method	Performance requirements UNI EN 1504-2	Declared performance	Certified performance (**)
Bond strength	UNI EN 1542	≥ 0.8 MPa	≥ 0.8 MPa	3,11 MPa
Thermal compatibility - Un/freezing cycles with immersion in de-icing salt	UNI EN 13687-1	≥ 0.8 MPa	-	3,44 MPa
Resistance to accelerated ageing	UNI EN 1062-11	No swelling or lamination	-	fulfilled requisite
Capillary absorption	UNI EN 1062-3	≤ 0.1 kg*m ⁻² *h ^{-0.5}	≤ 0.1 kg*m ⁻² *h ^{-0.5}	≤ 0.03 kg*m ⁻² *h ^{-0.5}
Water vapour permeability (equivalent thickness: Sd)	UNI EN 7783-2	Class 1 - Sd < 5 m	Class 1 - Sd < 5 m	Sd = 0.28 m
Permeability to CO ₂ (equivalent thickness Sd)	UNI EN 1062-6	Sd > 50 m	Sd > 50 m	Sd = 254 m
Crack Bridging Ability	UNI EN 1062-7 (static method)	A2 > 0.25 mm A3 > 0.50 mm A4 > 1,25 mm A5 > 2.50 mm	-	Class A2 > 0.25 mm
Reaction to fire	UNI EN 13501-1	Classification	-	Class F

SAFETY

Refer to the related Safety Data Sheet.



PAINT PROTECTION

CE	VOLTECO S.p.a Via delle Industrie, 47 - 31050 Ponzano Veneto (I)
18 DOP 0030 EN 1504-2:2005 1370-CPR-1299 PAINT PROTECTION Protection systems of the concrete surface. Coating against the risks of penetration (PI), humidity control (MC) and increased resistivity (IR)	
Reaction to fire: Class F Water vapour permeability: Class I Carbon dioxide permeability: $S_d \geq 50$ m Capillary absorption and permeability to water: $< 0.1 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0.5}$ Adhesion: $\geq 0,8 \text{ N/mm}^2$ Thermal compatibility: • Part 1: Un/freezing cycles: $\geq 0.8 \text{ N/mm}^2$ Resistance to cracking (method A): Class A2 Performance after exposure to the action of artificial atmospheric agents: Test passed Methods of conditioning before testing (7 days at 70°C): Not relevant Linear shrinkage: Not relevant Coefficient of thermal expansion: Not relevant Cross cut: Not relevant Slip resistance: Not relevant Antistatic behavior: Not relevant Adhesion on wet concrete: Not relevant Hazardous substances: See SDS	

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