

CONCRETE HYDRO

CONSOLIDATING WATER REPELLENT FOR CONCRETE



5 litres

A water-based water-repellent consolidating agent. Specially formulated for concrete and effective on all porous materials, including plaster, bricks and tufa. Dust-binding and breathable, it does not alter the appearance of materials.

CHARACTERISTICS AND ADVANTAGES

- Water-repellent and consolidating protective agent
- Dust-binding action and breathable
- Blocks efflorescence
- Anti-fouling and anti-pollution action
- Compatible with paints
- Treatment resistant to UV radiation
- A VOC-free product with a low eco-impact



* A VOC-free product with a low environmental impact and INDOOR AIR COMFORT GOLD certificate. The product has passed the applicable stringent requirements and conforms to all compulsory national standards (for example: French A+, CAM Edilizia, Belgian Regulation, AgBB, etc.) as well as innovative environmental sustainability criteria, such as LEED, BREEAM, WELL. For further information consult www.filasolutions.com/ita/azienda/ricerca-e-sviluppo

MATERIALS

CONCRETE, PLASTER, BRICK, TUFF

FIELDS OF APPLICATION

- Protects walls and new or refurbished outdoor coverings.
- Counters chalking without creating a surface film.
- Effective on ceilings or vaults that tend to flake.
- Protects new surfaces against ageing, by combating blackening due to atmospheric particulate and the growth of moulds, algae and lichen.
- In heritage buildings, for consolidating non-cohesive surfaces and containing flaking.
- On exposed bricks, shingles, hollow flat blocks for preventing efflorescences such as chlorides, carbonates, sulphates and saltpetre.
- Lasting protection of tufa, brittle and porous stone surfaces and manufactured stone surfaces.
- On cement walls and plaster before and after painting (for example, with washable paints for interiors, siloxane, acrylic-siloxane, lime-based paints and renders for exteriors).
- For jobs complying with CAM criteria, Air Comfort Gold certificate*, free of solvents and VOCs 0 g/l.

INSTRUCTIONS

How to use it: ready to use. On a clean, dry surface evenly apply **CONCRETE HYDRO** with a paintbrush or an airless sprayer.

FOR PROFESSIONAL USE ONLY: use the appropriate PPE as indicated on the safety data sheet if the product is applied with an airless sprayer.

AVVERTENZE

Carry out a patch test on a small surface area to check for any changes in colour. Avoid surface pooling. Do not apply the product outdoors if rain is in forecast. Avoid applying on surfaces with condensation and under direct sunlight. Avoid contact with new polished marble and natural stone, glass, wood and metal surfaces. Does not protect against acid aggression.

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TOOLS FOR APPLICATION



BRUSH



FLAT BRUSH



FLEECE PAD



AIRLESS

For professional use only

The tools can be cleaned with water.



TECHNICAL SPECIFICATION

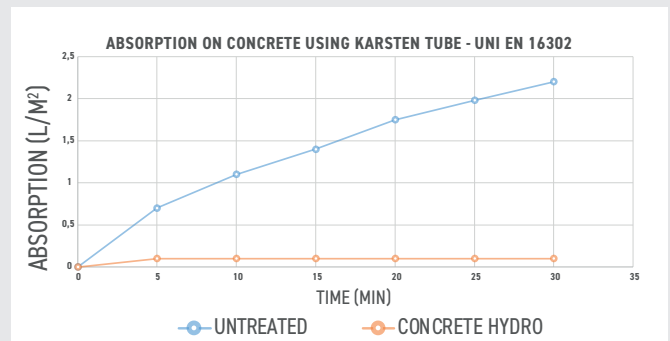
Anti-ageing protective agent. A transparent liquid consisting of organic compounds of silica and potassium silicate dispersed in water (density: 1.04 kg/l; pH: 12.06). For concrete, plaster, bricks and tufa. For floor and wall applications, both indoors and outdoors. Water-repellent and consolidating action, dust-resistant action. Prevents deterioration due to atmospheric agents, blocks efflorescence (chlorides, carbonates, sulphates and saltpetre). Hardens the surface. Breathable, UV-resistant and non-yellowing. A VOC-free product with a low eco-impact and INDOOR AIR COMFORT GOLD certificate. Manufactured by an ISO 9001- and ISO 14001-certified company.



TECHNICAL TESTS



Water-repellent action verified according to *UNI EN 16302:2013 - Measurement of water absorption by pipe method* (Karsten tube). CONCRETE HYDRO reduces absorption by up to 95%.



The Karsten pipe test is used to determine the water absorption of vertical surfaces, for example outdoor walls exposed to rain. The initial water column exerts a pressure on the surface comparable to that exerted by drops of heavy rain.

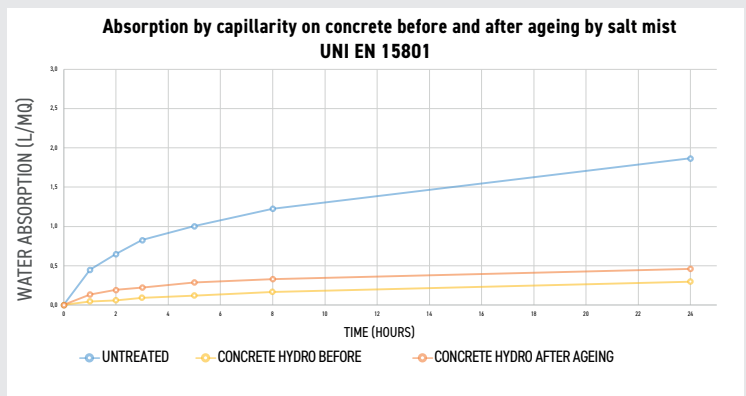
Water-repellent action by measuring the contact angle according to *UNI EN 15802 - Determination of static contact angle*. Conventionally, a surface is hydrophobic when $\theta > 90^\circ$. CONCRETE HYDRO on an unpolished surface reaches angles greater than 120° .

Consolidating action verified through *UNI EN 14147:2003 - Determination of resistance to ageing by salt mist*. The treatment with CONCRETE HYDRO counters erosion caused by the sodium chloride solution (100 g/l) atomised at 35°C for 50 cycles.

Breathability verified according to *ASTM E96M - Water vapour permeability of materials*. The treatment with CONCRETE HYDRO maintains breathability above 90% compared to the untreated material.

Withstands UV radiation, does not yellow. Ageing accelerated through exposure to UV radiation as per *ASTM G154*. Colour variation assessed according to *UNI EN 15886:2010 - Colour measurement of surfaces*.

Does not alter the surface's original coefficient of friction.



HOW IT WORKS

CONCRETE HYDRO has a water-based formula containing silica and silicates. Besides making it water-repellent, the treatment consolidates the support thanks to its mineralising action and prevents bothersome chalking effects. Its formula does not create a film and thus allows water vapour to pass.

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TECHNICAL FEATURES

COMPOSITION	Formulated with dispersions of organic compounds of silica and potassium silicates dispersed in a watery solution
APPEARANCE	Transparent colourless liquid
ODOUR	Odourless
DENSITY	1.04 kg/l
STORAGE TEMPERATURE	From 5°C to 30°C
APPLICATION TEMPERATURE	From 10°C to 30°C
DRYING TIME*	4 hours
CURING TIME*	24 hours
VOC (Volatile Organic Compounds) (Directive 1999/13/EC)	0 g/l

COVERAGE (5 litres)

UP TO

40 m²

Coverage is indicative and refers to one coat

*Indicative time that varies depending on the environmental conditions and on the material

Packaging

5 litres: boxes of 4

Available on request:

100-litre drums

1,000-litre cubes



SAFETY TIPS

Keep out of reach of children. Do not disperse into the environment after use. The product is classified as dangerous under Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

For safety-related information, please refer to the safety information sheet available on the website www.filasolutions.com and carefully read the product's label.



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The recommended instructions and application procedures for our products are the result of accurate tests carried out in our laboratory. There are, however, certain factors that we cannot predict: the condition of the surface before the treatment, particularly rare or unspecified properties/finishes of the material, environmental conditions, and the professionalism of the user. This is why we recommend carrying out a preliminary test on the surface to be treated. Fila always guarantees the quality of its products, but it cannot assume any responsibility in the event of incorrect use.

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