HYDROREP

WATER-REPELLENT PROTECTION

A solvent-based water-repellent sealer formulated for porous outdoor. The breathable formula does not alter the appearance of materials.

CHARACTERISTICS AND ADVANTAGES

- Water-repellent sealer
- Natural finish: does not alter the surface's original appearance
- Protects against pollution
- Hampers growth of microorganisms
- Blocks efflorescence
- Breathable and does not create a surface film
- Treatment resistant to UV radiation

MATERIALS

UNPOLISHED MARBLE AND GRANITE, UNPOLISHED STONE AND AGGLOMERATES, CONCRETE, MANUFACTURED STONE

FIELDS OF APPLICATION

- *Water-repellent with natural effect for natural stone, tuff, agglomerates, concrete and manufactured stone surfaces.*
- *Suitable also for protecting compact stone materials such as marble and granite.*
- *When used preventively, it hampers the build-up of algae, moulds and lichen and protects the surface against deterioration caused by atmospheric agents.*
- *For treating new or refurbished surfaces to retain their aesthetic and functional properties.*
- *Blocks efflorescences such as chlorides, carbonates, sulphates and saltpetre.*
- *Recommended for protecting facades, also in historical buildings or in buildings of high architectural value.*
- *In metropolitan areas it reduces smog and fine particle deposits that cause blackening of the surface.*

INSTRUCTIONS

APPLICATION:
apply **HYDROREP** on a clean and dry surface using a brush or other application method in a regular manner, with two coats with an 8-hour interval in between. In case of poorly absorbent stone surfaces (e.g. slate), a single coat of the product is sufficient. To complete the cycle with an oil-repellent protection: apply the **FOB XTREME** stain-proof sealer instead of the second coat of **HYDROREP**.
The surface can be walked on after just 4 hours
The water-repellent effect starts after 24 hours.

FOR PROFESSIONAL USE ONLY:
spray the product (airless system) on vertical surfaces until they are saturated and use appropriate PPE, as specified in the safety data sheet.

WARNINGS

On natural stone carry out a patch test on a small surface area to check for any changes in colour. Do not apply the product outdoors if rain is in forecast. Does not protect against acid aggression.

HYDROREP

WATER-REPELLENT PROTECTION

TOOLS FOR APPLICATION

BRUSH

FLAT BRUSH

WAX APPLICATOR

The tools can be cleaned with de-aromatised white spirits

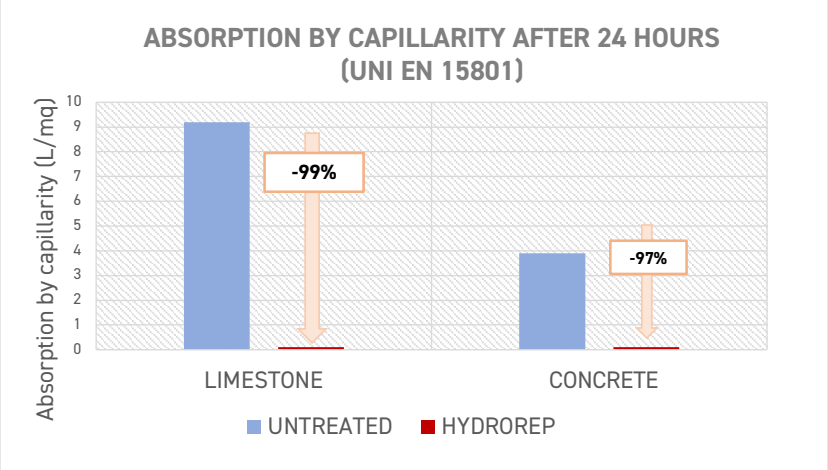
TECHNICAL SPECIFICATION

A water-repellent protective agent made with siloxane compounds in de-aromatised hydrocarbon solvent (density: 0.777 kg/l) for unpolished natural stone, marble and granite, agglomerates, concrete, cement tiles; suitable for application on floors and walls both indoors and outdoors. **WATER-REPELLENT ACTION. ANTI-FOULING ACTION.** It does not form a surface film. Resists UV radiation, does not yellow (as per the **ASTM G154** standard), is breathable (as per the **EN ISO 7783-2** standard), does not alter the material's degree of gloss (as per the **ASTM D523-08** standard),Impedes efflorescence and prevents moulds and moss from developing. Manufactured by an **ISO 9001** and **ISO 14001**-certified company.

download

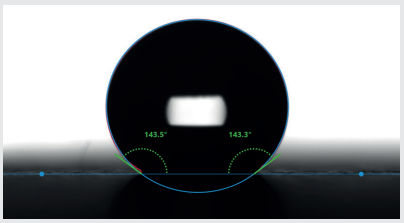
TECHNICAL TESTS

Water-repellent action verified according to **UNI EN 15801:2010** - Determination of water absorption by capillarity. The treatment with **HYDROREP** determines a reduction in water absorption exceeding 95%.



Water-repellent effect by measuring the contact angle according to UNI EN 15802 - Determination of static contact angle. Conventionally, a surface is hydrophobic when θ > 90°. HYDROREP on an unpolished surface reaches angles greater than 130°.

WATER REPELLENCY Treated surface	SANDSTONE	LIMESTONE	MANUFACTURED STONE
	θ average value	θ average value	θ average value
HYDROREP	140° (Super-hydrophobic)	144° (Super-hydrophobic)	145° (Super-hydrophobic)



Breathability verified according to ***ASTM E96M - Water vapour permeability of materials***. The treatment with **HYDROREP** 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.

HYDROREP

WATER-REPELLENT PROTECTION

HOW IT WORKS

HYDROREP is a water-repellent sealer made up of a dispersion of siloxanes in de-aromatised hydrocarbon solvent. The treatment, besides making the surface water-repellent, creates an unfavourable environment for the proliferation of biodeteriorating organisms. Its formula does not create a film and thus allows water vapour to pass. The treatment also prevents saltpetre build-up. The product always maintains high performance standards.

TECHNICAL FEATURES

COMPOSITION	Consisting of siloxanes dispersed in organic solvent
APPEARANCE	Transparent colourless liquid
ODOUR	Characteristic
DENSITY	0.777 kg/l
STORAGE TEMPERATURE	From 0°C to 30°C
APPLICATION TEMPERATURE	From 5°C to 30°C
DRYING TIME*	12 hours
CURING TIME*	24 hours
VOC (Volatile Organic Compounds) (Directive 1999/13/EC)	738.92 g/l

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

COVERAGE (1 litre)	
NATURAL STONE	**10-20 m²**
CONCRETE	**5 m²**

Coverage shown is indicative and refers to single coats

Packaging
1 litre: boxes of 12.
5 litres: boxes of 4
Available on request:
200-litre drums

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.

download

FILA Industria Chimica S.p.A.
Via Garibaldi, 58 - 35018
S. Martino di Lupari (PD) - ITALY
t +39 049 9467300
e info@filasolutions.com

REV. 00 - 22/09/2023