Evercrete Pavishield®

ORIGINAL EVERCRETE FORMULA

CE 1381

FOR PROFESSIONAL USE ONLY - REVISION DATE: 30 JANUARY 2018

Evercrete Pavishield® is a special protecting agent for preventing industrial concrete floors from deterioration. Its proprietary formula, based on waterglass with a special modifier, allows the product to penetrate into the concrete from 10 mm up to 34 mm.
Evercrete Pavishield® seals the pores in the concrete and becomes a permanent barrier.
Evercrete Pavishield® can be applied to any type of floor, ramp, or concrete, both fresh and mature.

Properties

Evercrete Pavishield® protects fresh concrete floors and acts as a curing compound with an anti-evaporation effect. It prevents the cracking caused by plastic and hygrometric shrinkage.

Evercrete Pavishield® has a dust-binding effect and is an excellent consolidating agent for dusty floors. It is a permanent and definitive treatment.

Evercrete Pavishield® provides an excellent base for further surface treatments and cementitious overlays. it is an excellent consolidating agent, blocks the rising damp and avoids saponification. It ensures R.H. < 85% over time.

Evercrete Pavishield® provides the concrete with an extraordinary resistance to freeze-thaw cycles and de-icing salts attack.

Evercrete Pavishield® it increases resistance to wear and to atmospheric agents.

Evercrete Pavishield® creates a permanent barrier that inhibits the penetration of water, acids, oils and toxic agents.

Evercrete Pavishield® is in compliance with the prescriptions of the 89/105 EECDirective and meets the requirements CE1504-2.

Performance

Properties	Result	Reference standard
Resistance to surface compression	30% mean increase	UNI 9944
Adhesion to binders, resins and paints	Improved	AMA-83 Sweden
Eflorescence susceptibility	None	
Absorption of oils and grease	Decreasing of 67%	
Anti-evaporation	Excellent results	ASTM C-309-74
Freezing and thawing resistance	300 cycles without damage	UNI 7087/72

Uses

- New and existing industrial concrete floors
- Indoor and outdoor floors
- Ramps and chutes
- Pavements
- Airport runways
- Sports tracks
- Cellars
- Farm structures like stables, cowsheds, piggeries, and barns for cereals and hay
- Skateboard tracks
- Before applying cementitious overlays such as Ercole® and Microbond®

Application

The product should be applied in two coats, on perfectly clean surfaces free from prvious coatings or substances which resiuces the absorption such as residues of oil and grease. It can be applied by spraying, roller or brush. Application by spraying is recommended using low-pressure pumps manual and electric (max 5 bar).

On cure casts (aged over 3 months):

1. The floor should be clean and wet thoroughly before application. Wash with a water pressure machine or washer-dryer.
2. Wait until the surface of the floor is dry (from 6 to 24 hours).
3. Stir the product thoroughly before use.
4. Evenly apply the first coat of the product, moistening the entire surface.
5. Wait till the first coat has been absorbed.
6. Apply the second coat going cross (in other words, if the first coat has been applied following the east-west direction, apply the second one in the north-south direction).
7. Rinse the floor within 12 hours from the first coat, to remove all products in excess using a floor washer or other systems.

Start from step 3 in case of frec casts.

Other applications

Ecobeton technical service is at your disposal for any tecnical information at europe@ecobeton.it

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Technical features

Composition	Proprietary blend of waterglass in aqueous solution
Packaging	5 kg / 20 kg Ecobox / 1000 kg Tank
Appearance	Odourless and colourless liquid
Shelf life [1)]	36 months
Curing time	36 days - can be walked on after a few hours
Flammability	Non applicable
VOC content	None

1) Stored in original sealed containers at temperature between 10°C and 25°C, keep away from glass and aluminium.

Certification

CE
1381

Ecobeton Italy Srl
Via Galileo Galilei 47, 36030 Costabissara (VI)
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Certificato n° GB08/76012
DOP n° 130107DOP-1504-2

UNI EN 1504-2:2005
Evercrete® - Pavishield®
Products for the the protection and repair of concrete structures

EN ISO I5470-1	Abrasion resistance: improvement > 30%
EN 1062-3	Capillary absorption and water permeability: $w < 0,1$ kg/mq x $h^{0,5}$
EN 13687-1	Freeze-thaw cycling with de-icing sal immersion (thermal compatibility): ≥ 1,5 N/mm²
EN 2812-1	Chemical resistance: no visible defects
EN 6272-1	Impact resistance: Classe III ≥ 20 Nm
EN 1542	Adhesion strength by pull-off test: ≥ 1,5 N/mm²
EN 13501-1	Fire classification: Euroclass A1
Internal protocol	Depth of penetration: > 10 mm

The above technical data has been obtained with a dosage of 400 g/m².
Declaration of Performance (DoP) available on the website www.ecobeton.com.

Warning

The use of quartz on floors partly saturates the porosity of the concrete and thus the coverage rate per sq. meter will be higher, even though the resulting performance of the floor will be sightly lower. Always apply **Evercrete Pavishield®** at the end of topping operations.

Bleeding: the bleeding phenomenon, i.e. the exudation of water from the cast, creates an accumulation of alkalis on the surface which makes **Evercrete Pavishield®** react immediately and makes the treatment useless. The problem can be avoided by applying the product before the appearance of the phenomenon, i.e. immediately after casting.

Temperature: Evercrete Pavishield® is a water-based product and therefore does not withstand hash climates. Do not apply below 5 °C and above i 40 °C. Do not apply when precipitations are forecasted within 24 hours.

Glass and Aluminium: protect glass and aluminium during application (watches, glasses, etc.) they can be damaged by the product.

Floor signals: signals on the floor must be removed by sanding the involved area.

Measures after cutting: before applying **Evercrete Pavishield®** remove the cement dust generated by the cutting and then apply the product. Do not allow the cutting dust to be mixed with **Evercrete Pavishield®**.

Product in excess: particularly on indoor hard trowelled floors, the product can form white glass marks. Therefore it is recommended to rinse the surface at the end of the application within 12-24 hours.

Curing time: Evercrete Pavishield® can normally be walked on after a few hours according to the impregnation of the material. The complete curing inside the concrete requires 36 days. Make sure there is a vapor barrier before applying cement based coatings, which can be applied immediately after rinsing **Evercrete Pavishield®**. The application of other types of overlays (resins, wood, etc.) has to be made after 36 days.

Coverage rate

The coverage rate per square metre varies depending on the absorption of the surface treated. In general, treat the concrete untilsaturated.

Type of floor	Yield	Coverage rate*
Indoor dry-shake topping floor	140 g/m²	7 m²/kg
Outoor dry-shake topping floor	200-250 g/m²	4-5 m²/kg
Other floors	250-330 g/m²	3-4 m²/kg

*The coverage rate includes two coats.

Note:
The information contained in this sheet is accurate to the best of our current knowledge. The products are guaranteed and have the highest quality and standard with regard to product tolerances. As it is impossible to carry out any controls on the application of the product, no express or implicit guarantee is provided as regards the final result and no responsibility is accepted directly or indirectly by the use of the products. Users are encouraged to carry out tests before application.

For more details visit website:
www.ecobeton.com
e-mail for technical support:
europe@ecobeton.it

Ecobeton Italy s.r.l. is a company certified with ISO 14001 enviromental management system.

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Ecobeton Europe
via G. Galilei, 47
36030 Costabissara (VI) Italy

T (+39) 0444 971893
E europe@ecobeton.it
I www.ecobeton.com