

MasterProtect H 303

Water-repellent impregnating agent based on alkyl-alcoholic silane in water for the protection of concrete surfaces.

MATERIAL DESCRIPTION

Water-repellent impregnating agent for the invisible protection of concrete, based on alkyl-alcoxisilane in water, supplied liquid in ready-to-use tank not to be diluted, to be applied by brush or spray in a single coat to saturation, for a total consumption of at least 0.1 liters / sqm. The solid content by weight is at least 20% and the content of volatile organic compounds less than 350 g / l. The high protection is confirmed by the water absorption value according to ASTM C 642-82 lower than 0.55% after 48h, by the resistance to chloride penetration according to the AASH T 259/260 standard with values lower than 93 g / m³ at depth of 13 mm.

FIELDS OF APPLICATION

MasterProtect H 303 is particularly suitable as:

- invisible water-repellent impregnating agent to protect concrete surfaces subjected to the action of atmospheric agents and chlorides.
- as a protective for both vertical and horizontal applications on old and new structures such as buildings, bridge beams, car silos, stadiums, water towers, industrial chimneys and many other architectural elements.

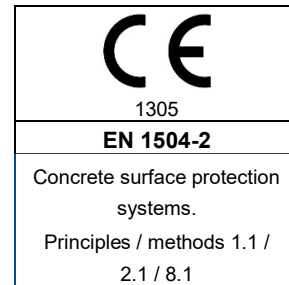
FEATURES AND BENEFITS

MasterProtect H 303 has the following features:

- Penetrates into the surface of the support ensuring a durable water repellent action that protects the support from the action of water and chlorides, from atmospheric pollution and from freeze and thaw cycles.
- It is invisible and non-film-forming. The appearance of the support on which it is applied therefore remains totally unchanged. Its action also limits the development of efflorescence and the accumulation of dirt.
- It is ready to use, without the need for dilution on site, thus allowing greater consistency in performance.
- The product is applied in a single coat, and it is not necessary to use a primer. It can also be applied to damp substrates.
- It does not evaporate during application, consequently all the active elements reach the substrate penetrating deeply.
- It is a water-based compound. It therefore does not contain volatile solvents that are harmful to the environment and to the applicator.

- The tools used for the application can be easily cleaned immediately with soapy water.

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 1504-3 and 1504-2 and the relative DoP (Declaration of Performance).



CONSUMPTION

0.10 / 0.33 liters / m² (depending on the porosity of the surface)

PACKAGING

MasterProtect H 303 is available in 5 and 20 liter cans

STORAGE

MasterProtect H 303 is a ready-to-use water-based liquid product packaged in 5 and 20 liter cans; it must be stored in a covered and dry place at a temperature > 2 ° C and <35 ° C and in such conditions it has a shelf life of 1 year.

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Technical Information	
Specific weight	1,01 kg/l ± 0,05
Solid content by weight	20% ± 0,5
Volatile organic compounds	< 350 gr/l
Flash point (ASTM D 3278-82)	> 93°C
Consumption	0,10 / 0,33 litri/m ²
Packaging	5 and 20 liter tanks
Essential characteristic	Performances
Average depth of penetration	2-3.2 mm (variable according to the concrete)
Absorption of water	ASTM C 642-82 0,53% /48 ore
Water repellent	ATST 2a 85,6%
Vapor transmission rate	OHD-L-35 102%
Resistance to chloride penetration	AASH T 259/260 <93 g / m ³ (index 1.5) at a depth of 13 mm 0.00 g / m ³ (index 0.75) at a depth of 26 mm

APPLICATION SHEET

PREPARING THE SUBSTRATE

Perform a sample application before proceeding with the treatment of the entire surface, to highlight the possible presence of previous impregnations still active.

The surfaces to be treated must be clean, free of dust, oils, efflorescence and coatings of any kind. The damaged or detached parts must be removed. Particularly dirty surfaces can be washed with high pressure water, sandblasted or hydro-sandblasted to obtain the desired result.

Expansion joints and sealants can be applied both before (wait for the complete drying of the products used), and after the application of MasterProtect H 303. The surfaces to be treated may be slightly damp, although, for better penetration, it is convenient are completely dry. However, MasterProtect H 303 should not be applied where there is stagnant water or ice on the substrate.

APPLICATION

The ambient, substrate and product temperature must be between 5 ° C and 40 ° C during application.

Do not apply MasterProtect H 303 if the temperature is expected to drop below 5 ° C in the next 12 hours.

Do not apply MasterProtect H 303 if rain is expected for the next 4 hours.

Shake MasterProtect H 303 carefully before and during application.

Apply to saturation in a single coat, with a brush or low pressure spray.

On horizontal surfaces it is possible to pour the product directly onto the support and then distribute it with a brush. For vertical applications, start from the bottom and go up so that the percolations are about 20 cm.

It is recommended to let the product penetrate for at least four hours, before proceeding with any other treatment.

MasterProtect H 303 can make surfaces temporarily slippery. Then wait for the product to dry before reopening to traffic. Strips and markings can be painted after MasterProtect H 303 is completely dry..

SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.



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Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

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For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.