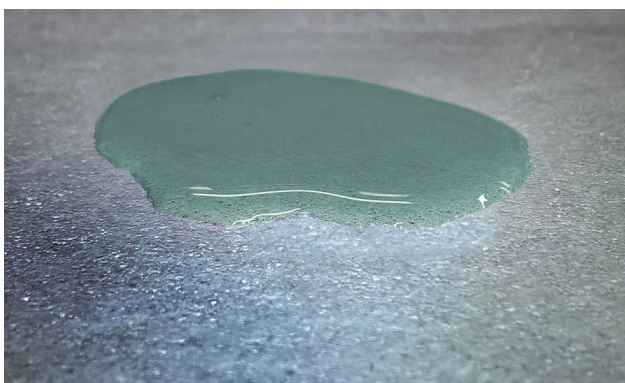


MasterTop CC 703

Single component organic-polymer water based oil repellent product, for the anti-stain treatment of concrete and cementitious floors by impregnation both indoor and outdoor.

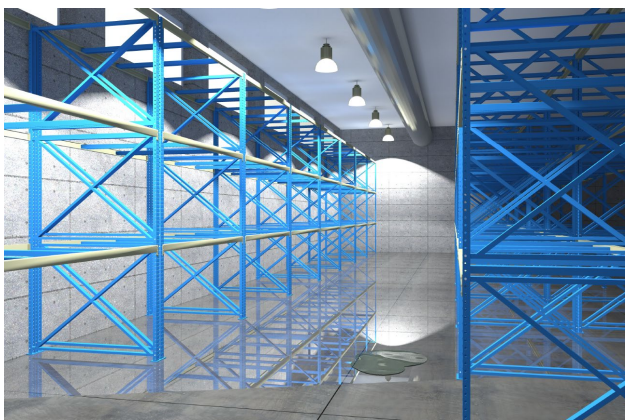
DEFINITION OF THE MATERIAL

MasterTop CC 703 is a ready to use, very low viscosity, clear single component, water-based organic polymer oil repellent and hydrophobic product specially designed for anti-stain treatment of concrete floors and cementitious surfaces.



MAIN FIELDS OF APPLICATION

MasterTop CC 703 has been specially designed as oil repellent anti-stain surface hardener for industrial concrete floors both indoor and outdoor like for instance car parks, production and logistics areas, garages.



It can be used for cement-based terrazzo floors as well. Perfectly compatible with the substrates consolidated using MasterTop CC 702.



CHARACTERISTICS

MasterTop CC 703 chemically bonds to the cementitious substrate becoming one single body by impregnation reaction.

The treated concrete becomes oil repellent and hydrophobic with:

- low dirt pick up specially vs oils;
- easy to clean;
- waterproof for capillary absorption.

MasterTop CC 703 is a sustainable product particularly careful of the health of the applicators as it has not:

- VOC content;
- any hazardous chemicals labels according to GHS (Globally Harmonized System of Classification and Labelling of Chemicals).

MasterTop CC 703:

- can be also applied on young concrete;
- safety compliant: slip resistance of the concrete substrate is not effected by the treatment with MasterTop CC 703. Concrete floor keeps its original slip resistance values both indoor and outdoor, within the range foreseen by the UNI EN 1504/2;
- Fulfils the requirements of the UNI EN 1504/2 ("Protection of concrete");
- water vapor permeable;
- increase the electrical resistivity of the concrete reducing the risk of corrosion of the steel rebars (the higher the resistivity the better for the durability of the steel rebars in the concrete).

CONSUMPTION

0,1 to 0,15 kg/m².

Real consumption depends on specific job site conditions. Test area is always recommended to confirm it.

PACKAGING

20 kg and 5 kg pails.

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PERFORMANCE

Test methods		Performance
Adhesion to concrete, UNI EN 1542 substrate MC (0,40) UNI EN 1766		> 2 MPa (failure in the concrete)
Permeability to water vapor measured as equivalent thickness Sd, UNI EN ISO 7783/1. $S_d = \mu \cdot s$, μ = coefficient of diffusion to water vapor, s = thickness - Class I: $S_d < 5$ m (Permeable) - Class II: $S_d \geq 5$ e ≤ 50 m - Class III: $S_d > 50$ (Not Permeable)		Class I
Coefficient of capillary absorption, UNI EN 1062/3. $\leq 0,1 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0,5}$		$< 0,1 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0,5}$ more than 50 times better than the untreated reference substrate ($> 5 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0,5}$)
Abrasion resistance, UNI EN ISO 5470/1 (1000 g wheel H22/1000 cycles) UNI EN 1504/2		Loss < 1000 mg
Abrasion resistance, UNI EN 13892/4 (BCA) UNI EN 13813 (Screeds and materials for screeds)	Class AR6, AR5, AR4, AR3, AR2, AR1, AR0,5	Class AR3 untreated concrete once treated moves to Class AR2
Depth of penetration (Table 3, num.19)		Class I ≤ 10 mm
Slip resistance, UNI EN 13036/4 - Class I, wet indoor surfaces: unit ≥ 40; - Class II, dry indoor surfaces: unit ≥ 40. - Class III, wet outdoor surfaces: unit ≥ 55		Class I 74 unit Class II: 91 unit Class III: 74 unit
Speed of drying coefficient by hydrophobic impregnation, UNI EN 13579 - Class I >30 % - Class II > 10 %		83%, Class I

STORAGE

Store the material in a safe sheltered spot 20°C temperature.

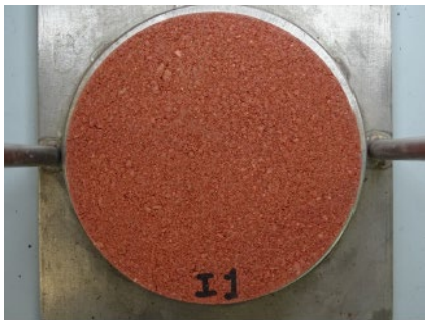
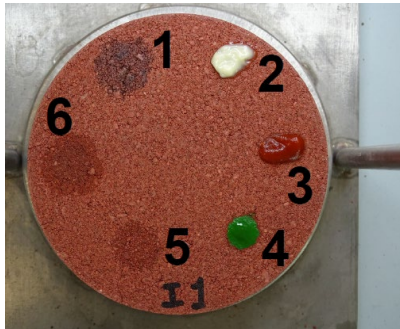
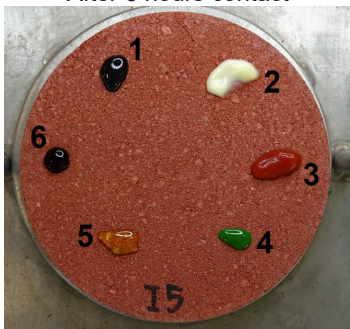
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ANTI STAIN TEST

Dirt agents in contact for 6 hours and simply cleaned with water.

Dirt agents	Definition
Numer 1	Engine oil
Numer 2	Maionese
Numer 3	Ketchup
Numer 4	Green in oil EN ISO 10545
Numer 5	Olive oil
Numer 6	Coffee

Untreated samples	Treated with MasterTop CC 703
Before contact 	Before contact 
After 6 hours contact 	After 6 hours contact 
After cleaning with water 	After cleaning with water 

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APPLICATION SHEET

SUBSTRATE PREPARATION

Concrete according to UNI EN 206/1 can be treated using MasterTop CC 703. It can be used on top of young and fully cured concrete.

Concrete surface must be clean, dry, dust and oil free in order to obtain the best penetration effect of the product. Damaged concrete must be repaired using for instance MasterTop 514 QD.

TEMPERATURE

Ambient temperature and substrate must be higher than 5°C and 3°C higher than the dew point. Surface must be cleaned using water pressure and then gently grinded. Remove all remaining powder using vacuum devices.

APPLICATION

Apply in one single layer by roller, rubber squeegee or by low pressure pump.

Data for the application	
Solubility in water	100 %
pH	ca 9.8
Density	c.a 1 kg/litro
Viscosity	< 10 mPa·s
Tack free time, 20°C	20 - 30 minutes

The effect of hydro and oil repellence could be reduced over time if the floor is subject to strong abrasion phenomena able to remove the skin of the concrete with the fully bonded reacted MasterTop CC703.



READY FOR SERVICE LIFE

After 24 hours (20°C) the treated floor is ready for traffic.

CLEANING

Remove the oil stains within 24/48 hours and in general plan to provide a regular cleaning standard procedure using the specific cleaner MasterTop CLN 50.

DECLARATION OF PERFORMANCE (DoP) and CE MARKING

In compliance with European Regulations (EU No 305/2011 and EU No. 574/2014), the product is supplied with CE marking according to EN 1540/2 and with the relevant DoP (Declaration of Performance).



We create chemistry

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Since 16/12/1992, BASF Construction Chemicals Italia Spa has been operating under a Certified Quality System in compliance with UNI EN ISO 9001. Furthermore, the Environmental Management System is certified according to UNI EN ISO 14001 and the Safety Management System is certified according to OHSAS 18001. Environmental sustainability: Green Building Council Partner since 2009.

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For more information contact the BASF Construction Chemicals Italia Spa Technician in your area.

Technical advice that may be provided verbally or in writing concerning the use and methods to apply our products reflect the current state of our scientific knowledge and practices and do not imply a guarantee and/or liability for the end result of the works when using our products. Therefore, the customer bears the sole responsibility of verifying the suitability of our products for the intended use and purpose.

This edition supersedes all previous ones.

July 2019