



Mapecrete Stain Protection

Hydro-oil repellent and anti-stain treatment for concrete, natural stone and cementitious surfaces made of modified organic polymers in a watery solution



WHERE TO USE

Mapecrete Stain Protection drastically reduces the absorption of oily substances and watery solutions and is used to create an efficient anti-stain effect on concrete, cementitious substrates and natural stone surfaces in general.

Mapecrete Stain Protection penetrates well even into substrates with low porosity. It does not form a film on the treated surface and, as a result, the appearance of the surface remains unchanged. This characteristic means that it may be used in various environments, particularly in commercial areas and for designing and re-qualifying flooring in commercial outlets.

Mapecrete Stain Protection is particularly suitable for both porous concrete and polished concrete. It may also be used on cementitious screeds and polished industrial floors, such as “terrazzo” made with both natural or artificial aggregates.

Some application examples

- Protecting rough or polished concrete surfaces.
- Protecting concrete industrial floors in shopping centres, discount food stores and goods warehouses, particularly those for storing food.
- Protecting concrete industrial floors in supermarkets.
- Protecting polished industrial floors, including

those in “terrazzo” made with natural or artificial aggregates.

TECHNICAL CHARACTERISTICS

Mapecrete Stain Protection is a one-component product in water dispersion made from micro-emulsions specially formulated according to a recipe developed in the MAPEI R&D laboratories to be efficient against problems with stains on floors. Through the polymeric chains which penetrate into the porosity and hook into the substrate, and by collecting at the surface to repel watery and oily substances, **Mapecrete Stain Protection** is highly efficient on concrete and cementitious substrates against staining generated by liquid substances often used in environments with foodstuffs, such as oil, grease, coffee, soft drinks and water-based substances in general.

Mapecrete Stain Protection has good penetration properties, including on substrates with low porosity, without altering their appearance. The special formulation of the product allows an excellent absorption into the treated substrate without forming a film on the surface.

Mapecrete Stain Protection has also an efficient anti-dust effect and makes maintenance operations on the floor simpler.

ADVANTAGES

- Excellent anti-stain effect against various liquid and oily substances.

TECHNICAL DATA (typical values)			
PRODUCT IDENTITY			
Consistency:	liquid		
Colour:	transparent		
Density (g/cm ³):	1.0		
Ion chloride content - minimum requirement $\leq 0.05\%$ – according to EN 1015-17 (%):	≤ 0.05		
pH:	8		
Hazard classification according to EC 1999/45:	none. Before using refer to the “Safety instructions for preparation and application” paragraph and the information on the packaging and Safety Data Sheet		
APPLICATION DATA OF PRODUCT (at +20°C - 50% R.H.)			
Application temperature range:	from +10°C to +30°C		
FINAL PERFORMANCE			
Performance characteristic	Test method	Untreated substrate	Substrate with Mapecrete Stain Protection
Absorption by immersion in oil (%):	EN 13580 modified with oil	1.20	< 0.35
Capillary absorption (kg/m ² ·h ^{0.5}):	EN 13057	0.90	< 0.25

- Efficient against stains caused by capillary rising damp.
- Reduces water absorption.
- Good penetration capacity, including in cracks in concrete.
- Does not alter the appearance of surfaces.
- Treated surfaces are easier to clean.
- Reduces the cost of maintenance of the floors.
- Watery solution, easy to apply (contains no solvent).
- Stable against UV rays, may be used in external environments.
- Compatible with the environment.

RECOMMENDATIONS

- Do not apply **Mapecrete Stain Protection** on dusty, crumbling or flimsy substrates.
- Do not apply **Mapecrete Stain Protection** on surfaces soaked with oil, fluids or grease.
- Do not apply **Mapecrete Stain Protection** on concrete substrates which have not been sufficiently cured.
- Before applying **Mapecrete Stain Protection**, make sure the surface is evenly dry and that there is no stagnant water or puddles.

APPLICATION PROCEDURE

Preparation of the substrate

Concrete surfaces must be sound, perfectly clean, dry and free of all traces of dust, grease and form release agents.

Make sure that new concrete surfaces are well cured.

Application of the product

Apply **Mapecrete Stain Protection** directly on the surface with an *airless* spray gun or by brush.

The drying time of the product depends on the porosity of the substrate on which it is applied (generally from 2 to 4 hours according to the surrounding temperature and the level of humidity).

The full efficiency of **Mapecrete Stain Protection** is reached approximately 24 hours after application.

Cleaning

Tools used to prepare and apply **Mapecrete Stain Protection** must be cleaned immediately after use with water. Once hardened, the product may only be removed using mechanical means.

CONSUMPTION

0.1-0.3 kg/m² according to the level of porosity of the concrete.

PACKAGING

25 kg plastic drums.

STORAGE

Mapecrete Stain Protection may be stored for up to 12 months in its original packaging in a dry area at a temperature of between +10°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapecrete Stain Protection is not considered hazardous according to current

standards and regulations regarding the classification of mixtures. It is however recommended to use gloves, eyes protection and to take the usual precaution taken when handling chemical products are recommended.

For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

**All relevant references
for the product are available
upon request and from
www.mapei.com**



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