

# PROTECTGUARD® CE



## WATER & OIL REPELLENT, ANTI-CHLORIDE AND ANTI-GRAFFITI TOTAL PROTECTION FOR ALL CONCRETE MEETS STANDARD EN 1504-2:2004

- PROTECTION AGAINST WATER, OIL, STAINING AND GRAFFITI
- PROTECTION AGAINST CHLORIDES, CORROSION AND CARBONATION
- EFFICIENCY 10 YEARS

- NON FILM-FORMING, LETS A SURFACE BREATHE
- CLEAR
- FACADES, WALLS AND FLOORS
- EXTERIOR AND INTERIOR

### PRODUCT DESCRIPTION

ProtectGuard® CE is the leading product for the protection of concrete.

ProtectGuard® CE durably and deeply protects concrete against water, chlorides, carbonation and corrosion. It also helps tackle the deterioration caused by atmospheric pollution, grease-type staining, penetration of liquids, graffiti... Concrete treated with ProtectGuard® CE will benefit from an increased lifespan and will be easier to maintain.

ProtectGuard® CE is a non film-forming impregnation product that leaves the treated surface permeable to air and water vapour. ProtectGuard® CE is completely colourless after application and does not change the appearance or the composition of the treated surface. It is also UV-resistant and does not discolour with age.

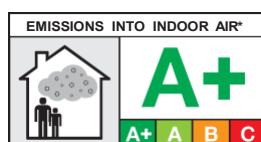
ProtectGuard® CE is CE marking product, that meets standard EN 1504-2, allowing to provide protection treatments to concretes.

### USE

ProtectGuard® CE may be used outside and inside on new and renovated facades, walls or floors. It is used to protect all kind of porous, low porous or polished concretes: shuttering, prefabricated, fiber-reinforced, UHPC, GRC...

### ADVANTAGES AND CHARACTERISTICS

- Protects against water, oil liquids, dirt, chlorides, carbonation and corrosion.
- Permanent anti-graffiti protection.
- Efficiency 10 years.
- Limits efflorescence formation, moss and lichen growth and limits dirt due to pollution.
- High penetrating power.
- Makes cleaning easier.
- Prevents deterioration resulting from freeze-thaw cycle.
- Non film-forming, lets the surface breathe.
- UV-resistant, does not discolour.
- Ready to use.



## CHEMICAL NATURE

Fluorinated copolymer and alkylacoxysilane.


## CONTAINERS

Check [www.guardindustry.com.au](http://www.guardindustry.com.au) for pack sizes.

## TECHNICAL DATA

Physical state at 20 °C	: Liquid
Appearance	: Uncoloured
Odour	: Slight
pH	: Not applicable
Density	: 0.89 ± 0.02
Solubility in water [vol/vol]	: Insoluble
Flash point [°C]	: > 63°C
VOCs	: 430 g/l*

## DECLARATION OF PERFORMANCE


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EN 1504-2 <b>ProtectGuard® CE Special Concrete</b> Hydrophobizing Impregnation Storage conditions: - 10 °C up to + 40 °C; containers must be kept tightly sealed and protected from moisture; shelf life of closed containers 12 months
Penetration depth: Class II: ≥ 10 mm
Water absorption and alkali stability: Absorption coefficient < 7,5 % compared to the non treated sample Absorption coefficient < 10 % after storage in alkali solution
Drying speed for hydrophobizing impregnation: Class II: > 10 %
Harmful substances: In accordance with 5.3

## OFFICIAL TESTS

ProtectGuard® CE has undergone numerous tests by external laboratories demonstrating its performance.

- Lucideon: water absorption, resistance to alkali, depth of penetration and loss of mass after freeze-thaw salt stress.
- SIMCO: impact on water transport in concrete.
- Historical Monuments Research Laboratory: water absorption.
- LRVision: CE marking - standard I504-2.
- Thomas Bell-Wright: tested & certified as per ASTM E84 with Class A result. Refer to [www.tbwcert.com](http://www.tbwcert.com) for validity and full documentation.
- LEED: Tested in accordance with ISO 16000. Qualifies for LEED specifications on VOC emissions and VOC content.

## HOW TO USE

Surface preparation:

- The conditions of application and substrate preparation must comply with French unified code of practice DTU 59.1.
- Apply the product to a surface that is clean, dust-free, grease-free and dry.
- Clean using **Guard Cleaner® Surface Preparation** to open up the porosity of the concrete and allow optimum grip of the protection. This step also allows the elimination of traces of efflorescence, laitance or cement bloom. To renew in case of persistent traces.
- In case of greasy stains or formwork release oil residues, use **Guard Cleaner® Maintenance** first.
- Rinse carefully with a pressure washer until the surface is free from all traces of the cleaner.
- Wait for complete drying through, approximately 24 hours before treatment.

Application:

- Use neat, do not dilute.
- Shake the product well before use.
- Always carry out a preliminary test.
- The treated surface should be impregnated to saturation point in one or in two applications 'wet-on-wet'.
- Do not over apply the product.
- On vertical surfaces, apply from the bottom-up.
- The surface must be protected for 24 hours from traffic and liquids (rain, grease...).
- Optimum effectiveness obtained after 7 days.

## APPLICATION TOOLS

- Apply using a low pressure sprayer with a Viton seal, an airless gun, a brush or a roller.
- **On low-porous concretes, apply with a roller or brush.**
- Wear a protection mask (Type: ABEK) especially when the product is sprayed.



## MAINTENANCE

Stains and dirt:

- The support can be cleaned with clean water or with the cleaner **Guard Cleaner®**.

Graffiti and tags:

- Graffiti can be cleaned by applying **Guard Remover Graffiti® 2030** cleaner.

\* Calculation based on the components' data.

## COVERAGE

Coverage depends on the type of application and the porosity of the concrete.

The figures below should be used only as a general guideline:

- Standard coverage:  
**90 to 160 g / m<sup>2</sup> - 6 to 11 m<sup>2</sup> / litre.**
- Coverage required to obtain the CE norm:  
**200 to 330 g / m<sup>2</sup> - 3 to 5 m<sup>2</sup> / litre.**

## CLEANING YOUR EQUIPMENT

Clean tools and equipment immediately after use with a solvent.

## STORAGE

- Keep in a dry place (between -10°C and 40°C).
- Storage: 12 months following the production date when kept in the original unopened container.

## RECOMMENDATIONS

- Only treat surfaces previously cleaned of all atmospheric pollution and stains.
- On fresh concrete or cement, wait at least 28 days before application.
- Do not apply to organic, metallic or waterproofing materials.
- For a perfect application and effective protection, **ProtectGuard® CE** must be used on a support having a temperature between 10°C and 30°C, a humidity level less than or equal to 5% and a pH between 7 and 10.
- Do not apply in rainy weather, very hot weather or in full wind. Air temperature between 10°C and 30°C. Hygrometry rate: between 30% and 80% RH (relative humidity). Check for the absence of precipitation within 24 hours of the work.
- Always handle the product in a ventilated area.
- Provide protection for the surrounding supports and protection for the applicator.
- Do not dilute or mix with any other product.
- On some concrete, product may increase slightly the original colour (carry out a preliminary test).

## HEALTH AND SAFETY

- Respiratory protection: Do not inhale the product. Wear a protection mask (type: ABEK).
- Hand protection: Wear fluorinated rubber gloves.
- Skin protection: Wear appropriate protective clothing.
- Eye protection: Wear protective airtight goggles (ref. standard EN 166)
- If swallowed: Do not induce vomiting. Contact a doctor or a specialist.

## PRODUCT FOR PROFESSIONAL USE ONLY

## TECHNICAL SUPPORT

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**Important:** The content of this documentation is based on our experience with the product. Guard Industry guarantees the quality of its products but expressly disclaims all liability if the user does not follow the recommendations and conditions of use of the products, especially but not exclusively in the case of faulty application, application by untrained personnel, use of products not compatible with Guard Industry products, or adverse weather conditions. For more information, consult the safety data sheet.

**For the most recent version of our data sheet, visit our website**

[www.guardindustry.com.au](http://www.guardindustry.com.au)

Last updated: 20/04/2026

Tested & certified as per ASTM E84  
with Class A result



Refer to [www.tbwcert.com](http://www.tbwcert.com)  
for validity and full  
documentation