

# PROTECTGUARD® CE

## SPECIAL CONCRETE



### PROTECTION OF CONCRETE AGAINST WATER, OIL, STAINING, GRAFFITI, CHLORIDES AND CORROSION 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 Special Concrete is the leading product for the protection of concrete.

ProtectGuard® CE Special Concrete 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 Special Concrete will benefit from an increased life-span and will be easier to maintain.

ProtectGuard® CE Special Concrete is a non film-forming impregnation product that leaves the treated surface permeable to air and water vapour. ProtectGuard® CE Special Concrete 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 discolor with age.

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

#### USE

ProtectGuard® CE Special Concrete may be used outside and inside on facades, walls and floors. It is used to protect all kind of concretes, for new and renovated constructions.

#### 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

5 and 25 litres.

## TECHNICAL DATA

Physical state at 20 °C	: Liquid
Appearance	: Uncoloured
Odour	: Slight
pH	: Not applicable
Density	: 0.9 ± 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

## 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® Eco 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® Eco 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.
- 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. Wear a protection mask (Type: ABEK) especially when the product is sprayed. **On low-porous concretes, apply with a roller.**



## MAINTENANCE

### Stains and dirt:

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

### Graffiti and tags :

- Graffiti can be cleaned by applying **GraffitiGuard® 2030 Ecological** cleaner followed by a high pressure rinse with hot water, preferably.

## COVERAGE

Coverage depends on the porosity of the material. The figures below should be used only as a general guideline:

**90 to 170 g / m<sup>2</sup> - 6 to 11 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 Special Concrete** 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 certain materials, 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

### GUARD INDUSTRY

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