



## SILICATE MINERAL STAIN PROTECTS AND EMBELLISHES CONCRETE

- TRANSPARENT COLORED IMPREGNATION SYSTEM WITH CUSTOM OPACITY**
- HOMOGENIZES AND DECORATES**
- MINERAL AND NATURAL AESTHETIC APPEARANCE**
- REINFORCED WATER REPELLENT PROTECTION**
- UV-RESISTANT AND ALLOWS THE SUPPORT TO BREATHE**
- INTERIOR AND EXTERIOR**

### PRODUCT DESCRIPTION

#### Transparent pigmented silicate mineral stain

ImperGuard® Color Silicate Stain is a system of two products (a colored base + a silicate thinner) to obtain a silicate mineral impregnation with low opacity to color exterior or interior concrete facades.

This stain gives a new aesthetic dimension to the works. It tints, embellishes or standardizes the appearance of concrete while preserving its skin and its minerality.

This system ImperGuard® Color Silicate Stain is a mineral stain which complies with the AFNOR NFT 36-005 standard: Family I class Ib (products containing at most 5% organic compounds).

ImperGuard® Color Silicate Stain associated with ImperGuard® Color Silicate Thinner can be diluted by default in 3 different levels depending on the desired level of transparency. It is however possible to create a custom opacity by diluting the stain between 1:2 and 1:10.



The final color depends on the color of the stain and the color of the support.

ImperGuard® Color Silicate Stain is a non-film-forming product which perfectly respects the natural mineral aspect of concrete. In addition, the backing remains permeable to air and water vapor.

#### Water-repellent and mineralizing effect

ImperGuard® Color Silicate Stain has a water-repellent property. It provides lasting protection against the penetration of water and thus limits the harmful effects of humidity: infiltration, acid rain, erosion, freeze / thaw cycle, formation of mosses and lichens, appearance of efflorescence or saltpetre...

ImperGuard® Color Silicate Stain also has anti-dust properties. It hardens the surface of the concrete to make it less fragile and less dusty.

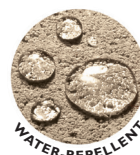
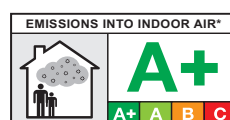
### USE

ImperGuard® Color Silicate Stain can be used vertically outdoors and indoors on all types of porous or slightly porous concrete: common, reinforced, fiber-reinforced, high performance (UHPC), architectural, stamped, smooth, prefabricated concrete, etc.

The stain can also be applied to architectural desaturated concrete while keeping the aggregates visible.

### ADVANTAGES AND CHARACTERISTICS

- Gives color while retaining the minerality of the support and without forming a film on the surface: lets the support breathe.
- Optimal adhesion: no risk of chipping or detachment.
- Limits water from entering and limits the harmful effects of humidity: infiltration, acid rain, erosion, freeze / thaw cycle, formation of mosses and lichens, appearance of efflorescence or saltpetre...
- 25 year color guarantee, UV resistant.



## AVAILABLE COLOURS

ImperGuard® Color Silicate Stain is available in 42 standard colors. It is also possible to realize all types of colors on request from any existing color chart.

## CHEMICAL NATURE

- Preparation of silicates and colloidal silicas (silica sol), acrylic copolymer, specialty additives and mineral pigments in aqueous phase.

## ENVIRONMENT

### Ecological and respects the environment:

- Water-based product.
- No petroleum-based solvents. & silicone-free.
- Safe and non-toxic.
- Biodegradable > 80%\* .
- VOCs < 5 g/l\* .
- Rating for VOC emissions into indoor air: A+

## CONTAINERS

- Coloured base: 5 and 25 liters bucket.
- Silicate thinner: 25 liters bucket.

## TECHNICAL DATA

### ImperGuard® Color Silicate Stain

Physical state at 20 °C	: Liquid
Appearance	: Coloured
Odour	: Odourless
pH	: 10,75 ± 0.5
Boiling point [°C]	: 100 °C
Density	: About 1.0 depending on the colour
Solubility in water [vol/vol]	: Total
Flash point [°C]	: Not applicable

### ImperGuard® Color Silicate Thinner:

Physical state at 20 °C	: Liquid
Appearance	: Milky
Odour	: Odourless
pH	: 11,28 ± 0.5
Boiling point [°C]	: 100 °C
Density	: 1.0
Solubility in water [vol/vol]	: Total
Flash point [°C]	: Not applicable

## HOW TO USE

### Surface preparation:

- Apply the product to a surface that is clean, dust-free, grease-free and dry. To remove stains and marks of pollution use GuardWash®. For concrete bloom or efflorescence, use Guard Remover® Eco Efflorescence & cement.
- The conditions of application and substrate preparation must comply with French unified code of practice DTU 59.1.

### Preparation of the product:

- ImperGuard® Color Silicate Stain must be diluted with ImperGuard® Color Silicate Thinner before application.
- Before dilution, mechanically mix the two products for 2 min until complete homogenization.
- Recommended dilution:

1:2	1:5	1:10
1 volume of silicate stain for 2 volumes of silicate thinner	1 volume of silicate stain for 5 volumes of silicate thinner	1 volume of silicate stain for 10 volumes of silicate thinner

- Depending on the desired opacity choice, it is possible to dilute the stain from 1: 2 to 1:10.
- Carry out the dilution in a measuring bucket then mix mechanically for 5 min.
- After dilution, the mixture can be used for 24 hours.

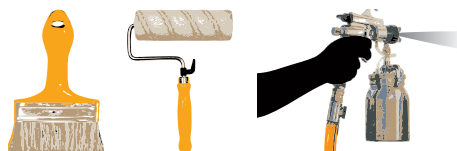
### Application :

- Always carry out a preliminary test before application.
- The product is applied in two coats. Do not overload the support.
- Apply a first coat on the support. Usual consumption on concrete: 40 to 70 g / m<sup>2</sup> (25 to 14m<sup>2</sup> / liter).
- Leave to dry 45 min to 1 hour depending on weather conditions (do not exceed 24 hours between 2 layers).
- Apply a second coat. Usual consumption on concrete: 40 to 70 g / m<sup>2</sup> (25 to 14m<sup>2</sup> / liter).
- Apply a third coat if total consumption is not reached.
- Protected drying: 24 hours.
- Maximum efficiency obtained after 3 days.

**For more information refer to the technical specifications.**

## APPLICATION TOOLS

- Apply using a wide brush, a foam roller, short bristles or long bristles depending on the nature of the support.
- It is also possible to apply using an HVLP / Airmix / Airless type sprayer.



## COVERAGE

The following values are for guidance only:

**100 to 140g/m<sup>2</sup> for 2 layers.**

## CLEANING YOUR EQUIPMENT

- Clean tools and equipment immediately after use with water.

## STORAGE

- Keep in a dry place (between 5°C and 30°C).
- Storage: 12 months following the production date when kept in the original unopened container.

## RECOMMENDATIONS

- Do not treat surfaces until they have first been cleaned of all atmospheric pollution and all stains.
- For a perfect application and effective protection, **ImperGuard® Color Silicate Stain** must be used when the temperature of the substrates is between 10 ° C and 30 ° C and with a humidity level of less than 5%.
- 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 site.
- Provide protection for the surrounding supports and protection for the applicator.
- Always refer to the Technical Clauses Book in force.

## HEALTH AND SAFETY

- Respiratory protection : Wearing a P3 mask recommended in particular in confined spaces.
- Hand protection : Wear latex gloves.
- Skin protection : Wear protective clothing with long sleeves.
- Eye protection : If there is a real risk of splashing, wear protective goggles.
- If swallowed : Do not induce vomiting. Contact a doctor or a specialist.

### PROFESSIONAL PRODUCT

## TECHNICAL SUPPORT

### GUARD INDUSTRY

7 rue Gutenberg • 93108 MONTREUIL Cedex • FRANCE

Tél: +33 (0)1.55.86.17.60 • Fax:+33 (0)1.48.58.16.89

E-mail : [contactus@guardindustry.com](mailto:contactus@guardindustry.com)

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

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