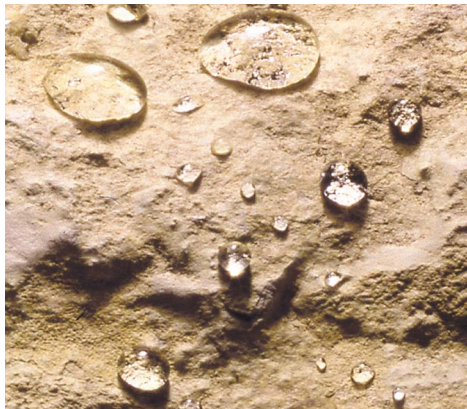
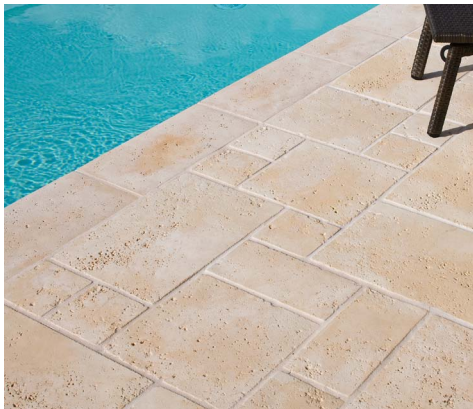




GUARD HARDENER® WO

WATER & OIL REPELLENT



MINERALISING/CONSOLIDATING FOR WALLS AND FLOORS WATER- AND OIL-REPELENT PRODUCT

- ✓ **PROTECTION AGAINST WATER AND HUMIDITY**
- ✓ **PROTECTION AGAINST STAINS AND SOILING**
- ✓ **DEEPLY CONSOLIDATES**

- ✓ **ABRASION RESISTANCE**
- ✓ **USE ON DRY POROUS AND LOW POROUS SUBSTRATES**
- ✓ **WALLS, FACADES AND FLOORS**
- ✓ **INSIDE AND OUTSIDE**

PRODUCT DESCRIPTION

Guard Hardener® WO : one product, two functions:

1. Hardens/consolidates and crystallises

Guard Hardener® WO is a product for consolidating inorganic, porous, poorly cohesive materials. It can also be used for restoring old monuments, fountains, cornices, and statuary in natural stone.

Guard Hardener® WO remedies the principal causes of deterioration of materials such as freeze/thaw cycles and acid rain, damage due to salts (crystallisation, hydration and hygroscopy), expansion and contraction of the material, modification of the structure of limestone carbonate under the action of CO₂-containing water, colonisation by cryptogamic agents (moss, lichen etc.), use of excessively alkaline cleaners and/or failure to rinse cleaners off...

Guard Hardener® WO recreates the mineral crystalline network destroyed by one of the causes mentioned above, so that the treated substrate is reverted to its original mechanical properties, without any change to its appearance or to its gas permeability.

2. Water- and oil-repellent

Guard Hardener® WO also has water- and oil-repellent properties that provide lasting protection for all porous materials against penetration by water, oil and stains of all kinds.

Guard Hardener® WO slows the aging of substrates, facilitates their maintenance and prevents the main causes of deterioration such as atmospheric pollution, grease soiling, water intrusion, etc.

USE

Guard Hardener® WO is for indoor and outdoor use wherever materials need consolidating and protecting. It can be applied to siliceous and carbonate rocks, concrete, cement, bricks, terracotta, slate etc.

CHEMICAL NATURE

- Solvent solution of ethyl silicate and fluorinated copolymer.

ADVANTAGES AND CHARACTERISTICS

- Increases the life of materials.
- Hardens and consolidates materials.
- Penetrates deeply.
- "Anti-dusting" action.
- Abrasion resistant.
- Colourless.
- Prevents penetration by water and greasy liquids.
- Limits efflorescence.
- Stain-, dirt- and adhesive-resistant.
- Non-film-forming – allows substrate to breathe.
- Excellent ageing, UV-resistant, does not yellow.

CONTAINERS

5 and 25 litres.

TECHNICAL DATA

Physical state at 20 °C	: Liquid
Appearance	: Uncoloured
Odour	: Solvent
pH	: Not applicable
Boiling point [°C]	: 100 °C
Density	: 0.9 ± 0.03
Solubility in water [vol/vol]	: Non soluble
Flash point [°C]	: > 62°C
Cethyl silicate content	: 40%
VOCs	: 317 g/l*

HOW TO USE

Surface preparation :

- Apply the product to a surface that is clean, dust-free and above all dry.
- A mechanical with a brush or chemical cleaning can be done.
- To remove stains and marks of pollution use **Guard Cleaner® Eco Polluted facades**. In case of greasy stains use **Guard Cleaner® Eco Soiled floors**. For efflorescence, laitance or concrete bloom use **Guard Remover® Eco Efflorescence & cement**. To eliminate moss and lichens, use **Guard AntiMoss®**.
- For new concrete constructions, allow substrate to stabilise (28 days) before treatment.

Application :

- Apply product neat – do not dilute.
- Test first.
- Apply to the point of saturation of the substrate in 2 layers with an interval of at least 10 min.
- Protected drying: 24 hours.
- Full efficiency achieved after drying 7 days.
- The treated substrate must not be covered by another coating.

APPLICATION TOOLS

- Apply using a low pressure spray unit with a Viton joint, a brush or a roller.



COVERAGE

The following values are for guidance only:

- Very porous and crumbling materials:
0.5 to 2 m² / litre for 2 layers
- Porous materials:
3 to 5 m² / litre for 2 layers
- Low porous materials:
6 to 10 m² / litre for 2 layers

CLEANING YOUR EQUIPMENT

- Clean tools and equipment immediately after use with white spirit.

STORAGE

- Keep in a dry place (between 5°C and 30°C).
- Storage: 24 months following the production date when kept in the original unopened container.

RECOMMENDATIONS

- **Always carry out preliminary tests to check the penetration of the product and the final look of the substrate.**
- Do not treat surfaces until they have first been cleaned of all atmospheric pollution.
- For ideal application and effective results, **Guard Hardener® WO** must be used when the substrate temperature is between 5°C and 30°C.
- Apply at a temperature between 10 and 25°C. Do not apply in direct sunlight, during rain or when there is a risk of rain.
- Do tests for efficacy on the target substrate.
- Do not apply to «black crusts» which may be deep dirt or may suggest deep damage to the substrate.
- Do not dilute or mix with another product, especially not water.
- Do not apply to materials which have been painted or made water repellent or to materials with a synthetic, metallic or plastic coating, or to vitrified tiling or plaster or so-called «grilled» rendering or to any wet substrate.
- Protect materials not intended to be treated such as glass, aluminium, wood and paint.
- The effectiveness of **Guard Hardener® WO** depends on the quantity applied, therefore keep to the coverage figures.
- If spray applying, be careful not to allow a mist to form.

HEALTH AND SAFETY

- Respiratory protection : Wear a mask (type: A2P3R).
- Hand protection : Wear rubber gloves.
- Skin protection : No special protective clothing or skin protection is required under normal conditions of use.
- 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

KEEP OUT OF THE REACH OF CHILDREN

TECHNICAL SUPPORT

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For the most recent version of our data sheet, visit our website
www.guardindustry.com

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