

GUARD HARDENER® WO



DEPTH HARDENER AND WATER & OIL-REPELENT

- DEEPLY CONSOLIDATES & CRYSTALLIZES**
- PROTECTION AGAINST WATER, STAINS AND SOILING**
- ABRASION RESISTANCE**
- USE ON DRY POROUS AND LOW POROUS SUBSTRATES**
- WALLS, FACADES AND FLOORS**
- INTERIOR AND EXTERIOR**

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.

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.

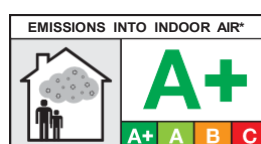
Guard Hardener® WO slows the aging of substrates, facilitates their maintenance and prevents the main causes of deterioration such as pollution, grease, soiling, water intrusion, moss, etc.

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.

ADVANTAGES AND CHARACTERISTICS

- Increases the life of materials.
- Hardens and consolidates materials.
- High penetration and abrasion resistant.
- “Anti-dusting” action.
- Colourless.
- Stain-, dirt- and adhesive-resistant: prevents penetration by water and greasy liquids.
- Limits efflorescence.
- 10 year efficiency.
- Non-film-forming – allows substrate to breathe.
- Excellent ageing, UV-resistant, does not yellow.



CHEMICAL NATURE

Solvent solution of ethyl silicate and fluorinated copolymer.

CONTAINERS

Check www.guardindustry.com.au for pack sizes.

TECHNICAL DATA

Physical state at 20 °C	: Liquid
Appearance	: Uncoloured
Odour	: Solvent
pH	: Not applicable
Boiling point [°C]	: 100 °C
Density	: 0.9 ± 0.02
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 Wash®**. In case of greasy stains use **Guard Cleaner®**. For efflorescence, laitance or concrete bloom use **Guard Remover®**.
- Rinse carefully until the surface is completely free from any cleaner marks and let dry 24 hours before applying the treatment.
- For new concrete constructions, wait until the substrate has stabilised (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, 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.

* Calculation based on the components' data.

RECOMMENDATIONS

- **Always carry out preliminary tests to check the penetration of the product and the final look of the substrate.**
- The product can accentuate the colour on certain materials (satin effect). Always carry out a test on the surface to be treated before application.
- 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 REACH OF CHILDREN

TECHNICAL SUPPORT

GUARD INDUSTRY AUSTRALIA

9 Byron Road, Armadale WA 6112

Phone: 1300 249 767

E-mail : enquiries@guardindustry.com.au

<http://www.guardindustry.com.au>

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

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