

Protective

CONCRETE HARDENER

Water-based, water-repellent impregnating and hardening sealer to aid mechanical polishing of concrete floors.



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CONCRETE HARDENER is a water-based impregnating and hardening sealer of the highest quality, specifically developed to speed up and simplify the mechanical sanding and polishing process of concrete floors, which are more difficult to polish on account of their porous nature and their high capacity to absorb water. **CONCRETE HARDENER** is characterised by a 100% water-based, eco-friendly formula and for its lack of volatile organic compounds (V.O.C. Free), therefore, its use is not harmful to the environment or for the health of users, either during or after application.

CONCRETE HARDENER, when used as part of the sanding and polishing process, offers various benefits:

- It consolidate and harden the material as it increases the hardness of the treated surface and provides better mechanical resistance against abrasion and scratches.
- It drastically limits water absorption on the floor and prevents all of the problems linked to excessive moisture in the concrete;
- It also speeds up the drying time required by the surface before it can be subjected to other processing or treatment.
- It speeds up the mechanical sanding and polishing process, allowing the operator to treat larger surfaces within the same amount of time than would be possible on untreated materials, as it reduces the friction between the surface and the polishing tool.
- It significantly reduces wear and tear to polishing tools as well as the amount of water needed to complete the job.
- Material is given pronounced damp proof properties.
- Surfaces become water-repellent
- It reduces the possibility of dirt build up on the material
- The performance of any stain-proofing product applied afterwards is significantly increased.
- It also increases the results achieved by the polishing grain used.

The specific characteristics of this **CONCRETE HARDENER** is that it penetrates the concrete deep down, hardening it and ensuring tough, lasting protection against rising damp, which is responsible for most of the problems generally found with this material: persistent damp marks, formation of rust, flaking and pop-ups, and saline efflorescence, which are responsible for attacking the surface. **CONCRETE HARDENER** also does not compromise the original breathability of the surface, since it does not create any type of film or alter the original appearance of the material.

CONCRETE HARDENER is a definitive solution, as it can withstand the action of de-waxing products and it is also certified for contact with foods and therefore, is a valid solution for protecting kitchen worktops.

CONCRETE HARDENER can be combined with a surface stain-proofer to achieve maximum performance; it will act as a primer to maximise the effectiveness and durability of the stain-proofing treatment applied successively.



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CHARACTERISTICS AND BENEFITS

- ✓ **Protects material from rising damp**
- ✓ **Prevents the formation of salts and efflorescence**
- ✓ **Water-based product**
- ✓ **Eco-compatible solution:**
- ✓ **VOC Free**
- ✓ **Suitable for contact with foods**
- ✓ **Does not change the original appearance of the treated surface**
- ✓ **Does not film**
- ✓ **High capacity to penetrate into the subfloor**
- ✓ **Durable protection**
- ✓ **Simplifies grout removal and cleaning after installation**
- ✓ **Does not change breathability**
- ✓ **Speeds up and simplifies mechanical sanding and polishing operations**

USES

This product **can be used** on both indoor and outdoor surfaces.
Suitable **for use** on: concrete, cement agglomerates

COVERAGE

10/15 m²/l

APPLICATION EQUIPMENT

Brush, lambswool applicator, roller, airless

APPLICATION STEPS

Preparing and cleaning the surface

1. Carefully clean the surface, making sure to remove any dust or dirt present.
2. Never apply CONCRETE HARDENER to wet surfaces. The product can be used on slightly damp surfaces; nonetheless, please ensure that the surface to be treated is as dry as possible.
3. Apply CONCRETE HARDENER to surfaces with a temperature of between +5 and +40°C
4. Any adjacent surfaces not being treated with the product must be protected.

Application to aid polishing

CONCRETE HARDENER must be used as part of the mechanical polishing process on surfaces previously sanded with 200/400 grain. To speed up the whole process, it is advisable for the preliminary sanding process to be carried out dry so as not to wait for the surface to dry before applying CONCRETE HARDENER. In the event this preliminary sanding operation is carried out with water, it is necessary to wait at least 24-48 hours before applying CONCRETE HARDENER or to cut out this waiting time, it is possible to apply CONCRETE HARDENER before commencing with the first mechanical polishing grains; this will drastically limit the amount of water absorbed by the surface, allowing immediate drying for the following steps before the re-application of CONCRETE HARDENER.



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Once CONCRETE HARDENER has been applied to a dry surface, it is possible to continue with the polishing process, starting with the next grain size from the one used before applying CONCRETE HARDENER. This second part of the polishing process must be carried out with water. Thanks to CONCRETE HARDENER, the surface can be treated with finishing chemical polishes after the 800 grain size has been used, which may already correspond to mechanical polishing carried out with particularly fine grain (1500-3000)

5. On dried, cleaned and sanded material, apply an abundant, even layer of product using a lambswool applicator, roller, brush or airless applicator or any other tools for the purpose. Make sure to create an even layer to cover the whole surface being treated. In case of application to especially absorbent surfaces, proceed to apply a second coat of product, following the same method, at around 1-2 hours from the first.

6. Considering that the resulting surface will need further mechanical polishing, it is not necessary to concentrate on any residual products, which will be removed in successive stages.

7. Proceed with the next level of polishing grain no less than 4 hours after applying CONCRETE HARDENER. We recommend in any case to proceed on the following day to allow the CONCRETE HARDENER to spread and cure completely.

The application of CONCRETE HARDENER to aid the mechanical sanding process is also possible before laying slabs or tiles.

COMPLEMENTARY CLEANING AND MAINTENANCE PRODUCTS

- For *routine cleaning* of a surface treated with CONCRETE HARDENER, we recommend: NEUGEL or ALGAFLOOR

- For *extraordinary cleaning* of a surface treated with CONCRETE HARDENER, we recommend: FABER 30

- To *polish* a surface treated with CONCRETE HARDENER, we recommend: STAR SHINE, K400 new or CRISTALFAB

- To increase *the stain-proof protection* of a surface treated with CONCRETE HARDENER, we recommend: HIDRO 150 or B1 700

INSTRUCTIONS AND GUIDELINES

- This is a ready-to-use product and does not need to be diluted.
- Never apply the product to a wet surface
- Do not apply the product to overly heated surfaces
- Apply the product to surfaces with a temperature of between +5 and +40°C
- Before applying the product, wait for the concrete to dry and cure completely.
- Before applying the product to the whole surface, it is advisable to test a small, unexposed area or unused piece to check its suitability for use.

EQUIPMENT CLEANING

At the end of application, the equipment used can be washed using water.



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SAFETY

When applying the product, always use suitable personal protective equipment and follow the instructions on the product safety data sheet with care.

PHYSICAL AND TECHNICAL INFORMATION

Aspect	: Transparent liquid
Color	: Colourless
Odor	: Odourless
pH	: 10.0 – 11.5
Specific gravity (20°C)	: 1120 ± 10 g/lt.

STORAGE

Keep the container tightly closed and store in a cool, dry place.

SHELF LIFE

24 months in the original, sealed packaging, stored in a cool, dry place.

PACKAGING

- 1 l bottles - 12 bottles per box
- 5 l cans – 4 cans per box
- 10 l cans – loose cans

HAZARD IDENTIFICATION



H315	Causes skin irritation
H319	Causes serious eye irritation
P264	Wash thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352	IF ON SKIN: wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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This technical data sheet supersedes all previous versions. Always refer to the latest version of the data sheet, available on www.fabersurfacecare.com site. Faber Chimica reserves the right to update and / or modify the data and information contained in the data sheet.

The information in this data sheet is based on our wide experience in technical and operational research. In any case you should always make a preliminary test to verify the suitability of the product for the intended use and the type of material on which it will be applied. The information and the suggestions can't be construed as a commitment or result in our responsibility as the conditions and method of use of the product cannot be controlled by us. Therefore Faber Chimica Srl disclaims any liability with regard to the use of such data and suggestions.

