



GOLDEN HYDRO - cement

A WATERBASED SILANE INVISIBLE WATER REPELLENT PROTECTION OF CONCRETE.

DESCRIPTION

GOLDEN HYDRO - cement is ready-to-use, modified alkyl alkoxy silane dispersion in water. It is a clear water repellent for horizontal and vertical concrete surfaces exposed to weathering and chloride ions like buildings, bridges, beams, etc.. It penetrates deeply into the substrate to react, and is providing instant water beading.

ADVANTAGES

- Improves the durability of the structure, by preventing the penetration of water, and salts, and against harmful chemical elements in the atmosphere.
- Increases the durability against frost/thaw cycles.
- Strong reduction of the water absorption and improving the aesthetics by reducing the efflorescence.
- Can be applied on damp substrates in one layer only.
- The treatment is not visible or does not change the aspect of the concrete, and it reduces the dirt pick-up, algae growth, and efflorescence.

USE

- For the protection and weatherproofing of concrete, old or new (cured), like for civil buildings, prefab elements, beams and pillars, bridge decks, reservoirs, cooling towers, etc....

APPLICATION

- The substrate must be sound and free from laitance, dust, algae, oil, or other substances which prevent good penetration like previous applied water repellent treatments. The prevention of penetration can lead to non-uniform absorption and white staining.
- For new concrete it is essential that the mould release agents are properly removed.
- The best substrate preparation can be obtained by water jetting, or sandblasting.
- Crack treatment and repair of any damage must be finished with a suitable repair mortar from the **GOLDEN CRETE** line, before the application of **GOLDEN HYDRO-cement**, and the necessary curing time respected (10 days in warm climate = 30 days in cold climate).

- As the **GOLDEN HYDRO-cement** is supplied ready to use, only gentle stirring is required before starting the application.
- Do not apply if temperature is below 10°C or above 33°C.
- The product should be protected from rain for at least 4 hours.
- Apply by brush or low pressure spray equipment. Do not use any atomising spray equipment.
- Always work in limited areas, from bottom to top, and allow the product to run down for at least 30 cm.
- Apply in 1 treatment.
- For horizontal applications, it can be poured, and then brushed till homogeneous distribution and saturation.
- The best penetration is obtained on dry substrate, but if they are too dry, apply first a water mist to break the surface tension.
- Clean spillages immediately with water. Protect plants from over spray, and avoid the contact with non-porous substrates as glass, metal.
- For horizontal surfaces, **GOLDEN HYDRO-cement** can leave a slippery surface during the first hours, so wait for exposing to traffic till full drying.

TECHNICAL CHARACTERISTICS (Typical values)

- Density: 1000÷1020 gr/l
- Solid content: Appr. 20 % in weight
- Flash Point: >90°C
- Water absorption: >90 % reduction vs untreated
- Early water bead: Excellent after 1 hour curing
- Penetration depth: > 2 mm, depends on concrete quality

CONSUMPTION

Average consumption is about 0,2-0,33 lt/m² but it depends on the porosity of the substrate.

It is recommended to perform a test area to assess the correct typical consumption.

PACKAGING

Jerry can of 20 lt, cans of 5 lt.

STORAGE

Store the product in the unopened packaging in a covered area, protected from freezing, but below 33°C. In this case, the product can be kept for more than 6 months.

PRECAUTIONS

The product is not hazardous, but it is recommended to wear gloves and eye protection. Accidental splashes to the skin and eyes should be washed immediately with clean water. For more details, consult the Material Safety Datasheet of this product.

The data are based on our practical experience and laboratory test. We assume no responsibility for any negative results from improper use that are due to factors unrelated to the quality of the product.

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