

HYDROPROOF H 250

Aqueous emulsion of organofunctional silane

CHARACTERISTIC

Aspect:	White liquid
Density:	Approx 0.95 g/cm ³
pH:	6,5 ± 1
Solids Content:	Approx 50 %
Stability and storage:	12 months when stored in originally sealed containers. Storage temperature are between 5 and 40°C

PROPERTIES

HYDROPROOF H 250 is an aqueous emulsion based on organofunctional silanes for the water repellent impregnation of absorbent, mineral substrates.

HYDROPROOF H 250 have the following properties:

- is suited for the water repellent impregnation of porous, mineral substrates
- shows very high reactivity and resistance against alkali
- penetrates deeply in porous, mineral substrates
- shows no formation of sticky silicone films
- gives invisible and water vapor permeable protection
- reduces significantly the uptake of water
- reduces the uptake of water-soluble pollutants (e.g. chlorides)
- protects cracks of up to 0,3 mm
- may be further diluted with water

APPLICATION AND DOSAGE

For most applications a concentration of from 10 % (1 part **HYDROPROOF H 250** + 9 parts of water) to 40% (1 part of **HYDROPROOF H 250** + 1,5 parts of water) in demineralized water is recommended. The amount **HYDROPROOF H 250** to be applied and the concentration to be used are highly depending on the absorbance of the substrate and the desired penetration depth. Very absorbent substrates may require up to 1 l/m² of **HYDROPROOF H 250**.

The substrates to be treated should be dry and clean. Acceptable surface cleaning methods include sandblasting and water blasting. During application outside temperatures and surfaces temperatures should be between +5 °C and +40 °C. **HYDROPROOF H 250** should not be applied during strong wind or rain.

HYDROPROOF H 250 should be applied by wet-on-wet flow coating to the saturation point by devices e.g. airless pumping equipment are suitable. The material should not be atomized. **HYDROPROOF H 250** can be applied by a brush or roll but the application is difficult due to the low viscosity of the product.

The water repellent effect of **HYDROPROOF H 250** can develop within minutes or require up to several days depending on the substrate and weather conditions. Therefore, the impregnation should be applied continuously and without a break to avoid overlapping.

A substrate which has already been made water-repellent no longer allows a penetration of any reapplied aqueous silane/siloxane emulsion.



APPLICATION AND DOSAGE (CONTINUES)

Non-absorbent substrates such as window frames, window sills, plastic fittings, window glass, etc., should be covered before application. Surfaces which accidentally come into contact with **HYDROPROOF H 250** can be cleaned with alcohol (spirit) or aqueous soap solution. Cleaning should be carried out as quickly as possible (within a few hours), otherwise formation of a silicone resin film can make cleaning more difficult. Silicone resin films are best removed using ethanol (or spirit). Plant life should be protected from overspray.

HYDROPROOF H 250 reacts with the interfaces in pores and capillaries of the mineral surface and forms invisible, water repellent interfacial compounds.

It is recommended to do preliminary test before first application.