



HYDROSTOP-PASSIVATING

Anti-corrosion fluid for thin-coated reinforcement and mixing liquid for Hydrostop-Repair.



PRODUCT PROPERTIES

- Strongly anti-corrosive,
- Penetrates concrete by seepage and diffusion,
- Quickens curing of **Hydrostop-Repair**,
- Durable passivation effect,
- Compatible with cement and concrete.

USE

As a strongly anti-corrosive agent, **Hydrostop-Passivating** is used in combination with other Hydrostop products to protect steel from corrosion in reprofiling work. It works by soaking concrete surfaces in areas where reinforcement bars' protective coating is too thin. Applications include residential, industrial and public utility construction both on the inside and outside of structures. The product is inflammable.

WORKING PRINCIPLE

Hydrostop-Passivating is a water-based solution of corrosion inhibitors and agents facilitating penetration of concrete pores/steel. It is in the form of a transparent (lightly straw-colored) liquid. The penetrating action results from diffusion of the product in the pores of mortar or concrete and over the surface of steel. Contact with steel surfaces causes a multiple anti-corrosive effect by: passivation, catalytic surface galvanizing and blocking access to the surfaces. The active ingredients of the product do not evaporate and are effective for many years. Because the product is soluble in water, it is necessary that the passivating film be covered by at least several millimeters of a waterproof material, e.g. Hydrostop products no. 423, 453 or 401.



Fig. 1. Soaking concrete around a rod whose protective coating is not sufficient. After this procedure the surface will be reprofiled.

PREPARATION OF THE SUBSTRATE

The surfaces of exposed reinforcement rods should be cleaned on at least 50% of the area to second cleaning level. Other surfaces near the rods, steel parts set in concrete and thin rod coatings should be soaked in large amounts of **Hydrostop-Passivating**.

MIXING WITH HYDROSTOP-REPAIR

Both products should be mixed the same way as mixing with water. Make sure that the temperature of either component does not exceed 20°C.

APPLYING HYDROSTOP-PASSIVATING

In case of soaking the thin protective coating on reinforcement, apply the product to the wall several times for as long as the substrate soaks it in or until the maximum amount of the product has been used, i.e. 3kg/m². The surface of steel treated with **Hydrostop-Passivating** can after 10 minutes be covered with **Hydrostop-Repair** mixed with **Hydrostop-Passivating**. In the case of setting in anchor rods, clean the hole with pressurized air, fill with a mix of **Hydrostop-Filler** and **Hydrostop-Passivating** (instead of water). Stir the mortar quickly, for example by using a drill with a diameter 2mm smaller than the normal diameter of the rod, and then hammer/screw in the anchoring rod.

CARE

A coating made from **Hydrostop-Passivating** mixed with the **Hydrostop-Repair** reprofiling mortar or with **Hydrostop-Filler** should be kept moist in accordance with the instruction for the given reprofiling mortar.

SAFETY PRECAUTIONS

Hydrostop-Passivating must not be disposed of into water reservoirs. The effective utilization of redundant amounts of the product is done by mixing it with products no. 423, 453, 401 or Portland cement. Once it binds, it can be treated as construction rubble and disposed of as such. The amounts of the product no longer needed can also be sent to the manufacturer for disposal. A health safety attestation and safety sheet can be provided upon request. Use protective goggles and watertight gloves when working with the product. Do not pour it onto the ground, into the sewage or water reservoirs.

TECHNICAL DATA

Name and no.: [Hydrostop-Passivating 463](#)
Product type: anti-corrosive liquid for thinly coated reinforcement and mixing liquid for [Hydrostop-Repair](#)
Form: transparent, straw-colored liquid
Packaging size: 1kg, 10kgs
Approximate use for mixing with product no. 423: 3.5kg/25kg
Approximate use for mixing with product no. 453: 4kg/25kg
Approximate use for soaking concrete: up to 3kg/m²
Approximate use for anchoring (per 1 anchor):
0.07kg of no. 453 + 0.013kg of no. 463 for Ø8mm,
1kg of no. 453 + 0.02kg of no. 463 for Ø10mm,
0.15kg of no. 453 + 0.024kg of no. 463 for Ø12mm
Density: 1.0kg/dm³±1%
Application temperature: 2°C to 30°C

SCHEDULING

Use before: 2 years from production date (unopened packs).
Reference documents: Technical approvals ITB AT-157242/2007 and IBDiM AT/2008-03-0446, safety sheet, health safety attestation PZH no. HK/B/0357/04/200.
Document updates at www.hydrostop.eu.

HYDROSTOP®

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Sales include courier delivery or in-store pick-up. The manufacturer guarantees product quality whereas the buyer is responsible for the selection of the product as well as its application and conditions of use. Hydrostop is a trademark protected by the Patent Office. The use of Hydrostop means the Delivery Terms have been accepted. This information is subject to change without notice. Last updated on 20 September 2013.