



HIDROSTOP FW

2-component waterproof coating in decorative white colour and fine granulation for swimming pools and potable water reservoirs

- ▶ Does not affect the drinking water quality
- ▶ Frost-resistance
- ▶ Possible application on moist mineral substrate
- ▶ Decorative white colour
- ▶ Smooth coating surface



PRODUCT DESCRIPTION Two-component white cement-based waterproof (positive and negative water pressure), water vapour-permeable and frost-resistant coating.

FIELD OF USE For waterproofing of concrete tanks and potable water reservoirs as well as other construction objects, where decorative white colour and smoother coating surface is required. Prevents penetration of moisture, subsurface water and pressurized water.

- PRODUCT PROPERTIES**
- Does not affect the drinking water quality
 - Frost-resistance
 - Possible application on moist mineral substrate
 - Decorative white colour
 - Smooth coating surface

PRODUCT DATA

BASIC INFORMATION

Appearance Component A - White powder; Component B - White polymer dispersion

Packing 32 kg complete 25 + 7 kg (Component A : 25 kg in paper bag and component B : 7 kg in plastic pail) / 48 bags on pallet and 63 pails on pallet

Storage and expiration date 12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.

TECHNICAL DATA

Type of product Cementitious polymer modified mortar

Bulk density of powder 1,18 kg/dm³ EN 1015-6:1999/A1:2007

Weight of fresh mortar 2,02 kg/dm³ EN 1015-6:1999/A1:2007

Weight of hardened mortar 1,91 kg/dm³ EN 12190:2000

Grain size D_{max}: 0,4 mm EN 12192-1:2002

pH component A 11,5

Flexural strength -after 3 days: 5,6 MPa EN 12190:2000
 -after 7 days: 6,9 MPa
 -after 28 days: 7,6 MPa

Compressive strength -after 3 days: 32,3 MPa EN 12190:2000
 -after 7 days: 37,7 MPa
 -after 28 days: 43,8 Mpa

Bond strength on concrete 1,6 MPa EN 1542:2000

Density component B approx.: 1 kg/dm³

pH component B 9-10

INSTRUCTIONS FOR USE

CONSUMPTION 3–4 kg/m² for two layers, application with a brush

BASE The substrate must be clean and free of all oil, grease, and wax, latex compounds, curing compounds, dust and all foreign matter. Prior to applying HIDROSTOP FW coating, the surface has to be moistened with clean water. The coating is applied when the surface is apparently dry or when it is mate. Any standing water on surfaces has to be removed.

The reinforced cement floor base and concrete has to be at least 28 days old.

BASE PREPARATION Suitable method for cleaning of surface is with water under big pressure or sandblasting. If applying on too smooth surfaces, previous roughening by sand-blasting, grinding or brushing with a wire brush is recommended. Absorptive surfaces has to be impregnated with the polymer dispersion (KEMACRYL, KEMAGRUND S or KEMAGRUND A) diluted with water in the ratio 1:1 to 1:3 (consider direction for use in technical data sheets for primers KEMA). Cracks, damages, segregation nests, and other irregularities on the surface must be previously repaired with HIDROSTOP KIT quick-setting putty. Active water intrusions are stopped with the HIDROZAT mortar. Contacts of vertical and horizontal surfaces are rounded into grooves with HIDROSTOP KIT quick-setting putty.

The waterproof coating HIDROSTOP FW can be applied onto the following foundations:

- Concrete with thickened structure, at least MB 12/15, that is solid and without segregation nests, cracks, and bad load capacity layers.
- Brick walls and concrete block walls constructed with cement mortar with at least 10 mm thick cement plaster coating. (In case of sealing clay brick wall below the level of the ground, the waterproof coating always has to be applied on the water flow-in side of the wall).
- Onto at least 10 mm thick cement plaster, applied as smooth or rubbed coating with perfect adherence to the surface.

MIX RATIO 25 kg of component A of HIDROSTOP FW with 7 kg component B of HIDROSTOP FW

MIX TIME In a clean bucket add liquid B component and then add powder component A of HIDROSTOP FW and stir well to achieve the medium density of liquid mortar. In order to achieve best possible results, the mixture is to be stirred with an electrical drill with suitable accessories for mixing mortar. Water may be added, if necessary, depending on weather conditions. Prepare as much coating as you can use in one hour. Thus prepared mixture has to be left still for about 5 minutes and afterwards it has to be well stirred again. During the application the mixture has to be stirred repeatedly.

INSTALLATION Apply HIDROSTOP FW with a brush on a surface in completely covering layer (consumption approx. 1,5 kg/m²). When the first layer achieves sufficient strength, the second is applied perpendicularly to the previous. (consumption additional 1,5 kg/m²). If smooth surface is required, the third layer should be applied with a brush and levelled with a finishing trowel. If individual layers dry before applying of the next layer, they have to be previously moistened. While applying the coating, be careful to achieve complete covering, especially in corners, semicircular contacts and edges. When HIDROSTOP FW coating is applied on horizontal walking surfaces, they have to be additionally mechanically protected (concrete layer, ceramics, various tiling). The final coatings, tiles and similar can be built in after sufficient strength of the waterproof coating is achieved or not before three days have passed.

TOOL Brush and trowel.

CLEANING OF TOOL Clean tools immediately after the use before mortar hardens. Hardened material on tools can only be removed mechanically.

USAGE TIME approx.: 1 h

LIMITATIONS

BASE TEMPERATURE +5°C min./ +30°C max.

AIR TEMPERATURE +5°C min./ +30°C max.

MATERIAL TEMPERATURE +5°C min./ +30°C max.

- WARNINGS**
- Ideal temperature for applying of the coating HIDROSTOP FW is between + 15°C and +20°C.
 - In case of high air and surface temperature, the surface has to be substantially moistened. If the coating layer is drying too quickly, it has to be additionally moistened.
 - If rain is expected in 4-6 hours after applying the coating, it must not be applied. As well it must not be applied if a drop of temperature below +5°C is expected in 2 hours after applying.
 - The coating has to be protected from too quick drying at least for 24 hours after it has been applied. In extremely unfavourable weather conditions (strong sunshine, wind) the adequate curing is recommended (sprinkling with water, covering etc.).
 - Times specified in the technical sheet were measured at the temperature of +23°C and relative air humidity of 50 %. Higher temperatures reduce, while lower temperatures prolong those times.
 - Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than +5°C.
 - HIDROSTOP FW is cement-bonded, so not suitable for protection against acids. In such cases additional protection is needed.

Recommendation: Remains of unhardened/unset material had to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. In case of eye contact wash thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.



LEGAL BASE

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