

HYDRO 2K ELASTIC SEALING MORTAR

Easy-to-use two-component waterproofing mortar for professional and popular applications. After thorough mixing of the components, it allows for making a flexible waterproof coating which can be applied on most substrates and used in many applications. The product is fibre-reinforced, does not cause metal corrosion and when fully cured it becomes resistant to low temperatures and chlorine. The obtained layer has the ability to mask scratches and cracks in the substrate and increased resistance to UV radiation. On substrates strongly exposed to cracks, it is recommended to submerge the reinforcement mesh into the HYDRO 2K layer, which increases its mechanical strength.

APPLICATION

HYDRO 2K is a two-component product designed for light, medium, and heavy types of damp proof and waterproof membranes

Forms a tight, flexible, and jointless coating that bridges cracks in the substrate and permanently seals corners, expansion gaps and sanitary pipe crossings in combination with special waterproofing tapes and flanges from the TYTAN waterproofing system

It can be used on terraces and balconies, in swimming pools and beaches, in showers, sanitary facilities, for sealing basement walls and foundations exposed to constant contact with ground water and in water reservoirs

Hydro 2K is designed to be applied on typical building substrates such as: concrete, cement-lime plaster and gypsum plaster, drywall panels, and cement-chipboard panels, anhydrite and cement screeds, cellular concrete, hollow bricks and clay bricks, foundation blocks, old tiles and on wood-based substrates and heated floors

ADVANTAGES

easy to use two-component mortar
bridges scratches and cracks in the substrate
tightly protects against moisture and water
resistant to negative water pressure
resistant to chlorinated water
does not cause metal corrosion
for use on terraces and balconies, in swimming pools, washrooms
for sealing water bodies
for sealing basement walls and foundations



APPLICATION CONDITIONS

Application temperature [°C]	+5 - +25
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INSTRUCTIONS FOR USE

Before starting the application, read the safety instructions in the MSDS.

1. SUBSTRATE PREPARATION

- The substrate should be stable, even, sound, dry, cleaned of dust, dirt, lime, oil, grease, wax, oil and emulsion paint residues, bitumen coatings, efflorescence and other substances that may impair adhesion of the preparation.
- Any irregularities or cavities must be repaired in and the sharp edges rounded
- Unplastered walls should have joints completely repaired and the substrate should be highly absorbent, such as cellular concrete and gypsum-containing substrates, should necessarily be primed with the TYTAN UNIVERSAL PRIMER CONCENTRATE preparation
- Substrates should be properly seasoned, free of technological moisture and capillary action.

2. PRODUCT PREPARATION

- HYDRO 2K flexible waterproofing mortar is available in two-component sets: component A - dry mix, component B - emulsion
- These components are packaged in separate containers in proportions suited to the mixture.
- Pour the emulsion (component B) into a container of a suitable size and at the same time add the dry mixture (component A) and mix it with a low-speed mixer until it is homogeneous in consistency and colour.
- The product is suitable for use after approx. 5 minutes and re-mixing
- For the first layer of waterproof membrane you can prepare the product with addition of max. 3% water.
- Do not mix with other materials.

3. USE

- The compound should be applied to the prepared substrate in at least two layers.
- Apply the first layer with a paint brush or brush, ensuring that it is rubbed thoroughly into the substrate to increase adhesion.
- Begin application starting with the places where joint filler tapes, fittings, and sealing flanges will be used.
- Submerge the used sealing accessories into the freshly applied compound paying particular attention to the precision of submerging.
- Then apply the first layer of the waterproofing mortar over the entire surface to be

insulated. The thickness of the layer should ensure an even, thorough, and tight coverage of the substrate to be insulated.

- After the first layer is completely dry (approx. 3 h), another layer can be applied.
- This should be done on the entire surface to be insulated with a paint brush or a smooth steel float.
- Any further layers should only be applied after the previous ones have dried.
- The thickness of a single layer should not exceed 1 mm and the final thickness of the coating should not be less than 2 mm.
- The works should be carried out at the temperature of air, substrate and product from +5°C to +25°C, protecting the freshly applied layer for at least 12 hours against adverse weather conditions and for at least 7 days against the influence of pressurised water. The works should be carried out at the temperature of air, substrate and product from +5°C to +25°C, protecting the freshly applied layer for at least 12 hours against adverse weather conditions and for at least 7 days against the influence of pressurised water.
- The coating must ultimately be permanently protected with the cladding

4. LIMITATIONS / COMMENTS

- Before starting the application, read the safety instructions in the MSDS.

TECHNICAL DATA

	Value
Mixing ratio of components A:B	3:1
use time after mixing	approx. 1.5 h
drying time of the first layer	approx. 6 h
walking on the mortar possible after	approx. 12 h
application of a protective layer after	approx. 24 h
pressurised water load	after approx. 7 days
maximum single-layer thickness	1 mm
capacity to cover scratches	≥ 0.75 mm
consumption per 1 mm thickness	1.5 kg/ m ³

CONSUMPTION

On average, approximately 1.5 kg of product is consumed per 1² of the surface to be insulated with a layer thickness of 1 mm

Insulation	Coating thickness [mm]	Consumption [kg/]
light type (dampproof)	2	approx. 3.0
medium type (groundwater)	2.5	approx. 3.75
heavy type (pressurised water)	3	approx. 4.5



All the given parameters are based on laboratory tests and trials in accordance with the manufacturer's internal standards and strongly depend on the curing conditions of the product (packaging temperature, environment, substrate, quality of equipment used and skills of the person applying the product).

TRANSPORT / STORAGE

The product should be transported and stored in dry conditions in original, undamaged packaging at +5°C to +25°C. Protect against frost and direct sunlight. After opening, close the package tightly and use the remaining contents as soon as possible. The product stored in this way has a shelf life of 12 months.

WARNINGS AND OHS RECOMMENDATIONS

Please check with the manufacturer's MSDS for details.

The above data, recommendations, and guidelines are based on our best knowledge, research, and experience and have been given in good faith, in accordance with the rules of our company and our suppliers in force. The proposed courses of action are considered common, but each user of this material should ensure by all means possible, including checking the final product under appropriate conditions, that the material supplied is suitable for its intended purpose. Neither the Company nor its authorised representatives can be held liable for any loss suffered as a result of incorrect or improper use of its materials.