TYTAN PROFESSIONAL Flexible Sealing Mortar With Fiber HYDRO 1K grey

One-component waterproofing underlayment intended for waterproofing and anti-waterproofing of
light, medium and heavy type. Thanks to the use of high quality redispersible polymer powders and reinforcing polypropylene fibres, it is characterised by high elasticity and mechanical resistance. It forms a tight and seamless layer bridging substrate cracks and permanently sealing corners, expansion joints and pipe penetrations in combination with special tapes and sealing collars from the waterproofing system.

BENEFITS

- flexible
- rainproof after 4 hours from application
- fibre-reinforced
- UV resistant for up to 6 months
- bridges cracks at temperatures down to -20°C
- for terraces, balconies, pools, plinths, outdoor steps
- frost and water resistant
- application temperature from 2 - 30°C

INTENDED USE

- mortar is designed for waterproofing under ceramic cladding on typical mineral substrates such as: cement floors and bases, cement and cement-lime plasters, concrete
- for terraces and balconies, external stairs, plinths and swimming pools
- for making composite waterproofing with class C2 adhesives according to EN 12004+A1:2012 and waterproofing tapes and cuffs

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NORMS / ATESTS / CERTIFICATES

The product meets requirements of:

- EN 14891:2017

The product has

- Class CMO2P Water-repellent cementitious product applied in liquid form, with increased crack-bridging capacity at very low temperature (-20°C), resistant to chlorinated water

Additional information

- Material Safety Data Sheet

TECHNICAL DATA

Parameter (+23°C/50% RH)	Value
Maturing time [min]	5
Retention time of working properties [h]	≥2
Max. thickness of 1 layer after drying [mm]	2
Minimum seal coat thickness [mm]	2
Minimum number of coats	2
Consumption for a 2 mm thick sealing coat [kg/m^2]	ok. 3
Bulk density [kg/dm^3]	1,0 - 1,1
Drying time of 1 coat [h]	≥2
Application of the second layer after time [h]	≥2
Rain resistance after time [h]	≥4
Climbing ability after time [h]	≥4
Bonding of ceramic tiles after time [h]	≥14
Resistance to water pressure of 1.5 bar after time [days]	4
UV resistance [months]	6

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Initial adhesion [MPa]	≥1,0
Crack-bridging ability under standard conditions (23±2 °C) up to [mm]	1,0
Crack-bridging ability at very low temperature (-5 °C) up to [mm]	1,0
Crack-bridging ability at very low temperature (-20 °C) up to [mm]	1,0
Adhesion after thermal ageing [MPa]	≥1,0
Adhesion after immersion in water [MPa]	≥1,0
Adhesion after exposure to lime water [MPa]	≥0,5
Adhesion after exposure to chlorinated water [MPa]	≥0,5
Adhesion after freeze/thaw cycles [MPa]	≥1,0
Watertightness, water penetration (EN 14891)	-
Watertightness, weight increase (EN 14891) [g]	≤1,0
Conditions of application	**Value**
Application temperature [°C]	2 - 30
Colour	**Value**
Grey	+
Packaging	**Value**
Packaging 20 kg	+

METHOD OF USE

Prior to application, read safety instruction presented at the end of TDS and in MSDS.

Surface preparation

- The substrate should be stable, even, load-bearing, dry, free of dust, dirt, lime, oil, grease, wax, and the remains of oil and emulsion paints.
- The substrates should be properly seasoned and free from process water. Unless the technology indicates otherwise: concrete surfaces should be at least 3 months old and have humidity of ≤ 4%, cement plasters and screeds should be at least 28 days old and have humidity of ≤ 4%.
- All irregularities, cavities and stabilized cracks over a width of up to 0.75 mm shall be mechanically widened and filled.
- A light wetting of the substrate (dull-moist) is recommended before application.

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Product preparation

- The mortar is prepared by pouring the entire contents of the bag (20 kg) into a clean measured quantity of water (4.4 - 4.8 l) and mixing with a slow speed mixer with an agitator until a homogeneous consistency without lumps is obtained.
- The mortar is suitable for use after 5 minutes and mixing again.
- Mortar prepared this way should be used within 2 hours. In case of thickening do not add water but mix again.

Application

- The compound should be applied to the prepared substrate in at least two coats.
- Apply the first coat with a trowel or brush taking care to press it thoroughly into the substrate to increase adhesion.
- Start the work where expansion tapes and sealing fittings and collars will be used.
- The sealant accessories used should be blended into the freshly applied compound, paying particular attention to the precision of blending.
- Then apply the first layer of sealant over the entire insulated area.
- The thickness of the layer should provide uniform, thorough and tight coverage of the insulated substrate.
- the second layer should be applied immediately after the first layer has been applied using the "wet on wet" technique.
- Application of the second coat should be done with a toothed trowel with 4-6 mm teeth size.
- This operation should be carried out over the entire insulated surface.
- The resulting tines should be rubbed off with the smooth side of a trowel.
- If the first layer has dried out and it is not possible to apply the second layer wet-on-wet, wait at least 2 hours until the first layer is completely dry. If the first layer has dried out and it is not possible to apply the second layer wet-on-wet, wait at least 2 hours for the second layer to dry completely before applying the second layer.
- Any subsequent coats should be applied only after the previous ones have dried.
- The thickness of the coating obtained after drying should not be less than 2 mm.
- Carry out the work at air, substrate and product temperatures between +2°C and +30°C.
- By protecting the freshly applied coat for a minimum of 4 h against rain, for a minimum of 4 days against pressurised water and against excessive sunlight.
- The resulting coating should ultimately be permanently protected with ceramic cladding.
- Until the coating is protected with cladding, the waterproofing layer should be protected from mechanical damage.

Remarks / restriction

- A change in the application conditions may cause a change in the product's technical performance values.

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- At temperatures below 23°C and humidity above 50% the setting time of the primer may be extended.
- Above 23 °C, the standby time may be reduced.
- The times indicated in the table refer to a 2 mm thick waterproofing layer.
- After application, the ambient temperature must not fall below 2°C for min. 24 hours after applying the insulation.

ADDITIONAL INFORMATION

All data refer to a temperature of the substrate, ambient and material of 23±2 °C and a relative humidity of the air of 50±5%.

TRANSPORT / STORAGE

The mortar should be transported and stored at +5°C to +25°C in dry conditions on pallets in original, undamaged packaging. A product so stored has a shelf life of 12 months. Protect against moisture.

CATALOGUE DATA

Nominal capacity / volume / size	Colour	Number of pieces per collective package	Index	EAN Code
20 kg	cement grey	1	10048229	5902120195442

SAFETY AND HEALTH PRECAUTIONS

For detailed information find Material Safety Data Sheet available at producer upon request.

All written or oral information, recommendations and instructions are given according to our best knowledge, tests and experience, in good faith and in compliance with manufacturer's principles. Each user of this material will make sure in every possible way, including verification of the final product in proper conditions, about suitability of the supplied materials for their intended purposes. The manufacturer is not liable for any losses incurred due to inaccurate or erroneous application of the manufacturer's materials.

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