

HYDRO PROTECTION CAM

Ready-to-use, quick-drying elastic fluid membrane for internal and external waterproofing.

In compliance with CE EN 14891 standards.



Product identification

HYDRO PROTECTION is a light blue fluid polymeric membrane, ready to use and totally solvent-free, based on acrylic polymers in water dispersion, quick drying, for waterproofing applications of internal and external concealed supports. It allows easy application on horizontal, inclined or vertical surfaces, spreadable with a long-haired roller, brush, spatula and even by spray.

After drying quickly, it acquires the properties of an elastic, non-sticky membrane with good resistance after the first 3/4 hours, offering an excellent gripping surface for adhesives for laying ceramic, stone material and mosaics of all types. . The elasticity of HYDRO PROTECTION allows it to withstand the normal expansion and shrinkage movements of the substrate due to changes in temperature and settling.

The special formulation eliminates slippage for the vertical and horizontal application of reinforcing fabrics, such as EDMEC TNT1 or corner reinforcements such as EDMOBAND.

The product is formulated with ecological materials to reduce CO2 emissions, as well as being quartz, APEO and free. CAM certificate according to UNI ISO 14021 issued by the international body SGS Italia.

Main applications

<u>Supports</u>	<u>Jobs</u>
Cement plasters	Waterproofing of supports and screeds for the installation of internal and external coverings
Cement screeds	Terraces and balconies
Mineral screeds	Saunas and wellness centers
Concrete	Civil
Cured concrete	Industrial
Plasterboard (internal use only)	Commercial
Ceramic tiles - Marmette	

Do not use

Do not use outdoors, on wet surfaces or subject to rising damp, in environments with the continuous presence of water, tanks, swimming pools, tanks and/or on interventions where protection from UV rays is not required.

Product pros

- ❖ Ready to use.
- ❖ Rapid action ability.
- ❖ Excellent spreadability and elasticity.
- ❖ Can be used on numerous surfaces.
- ❖ Good *crack-bridging capabilities* .
- ❖ hydrophobicity , even in constantly humid and steam-saturated environments.
- ❖ Quick and easy application.

- ❖ Safe joints.
- ❖ Ecological at the end of life

Preparation of the support

- ❖ In summary, the installation support must be free from humidity, efflorescence, salt, dust, grease, loose parts and any situation that would compromise good adhesion.
- ❖ Restore degraded, missing parts or gravel nests and fill any differences in flatness with total maturation.
- ❖ On old stable and perfectly anchored floors, completely remove any detaching layers such as waxes, water-repellent treatments, etc., by using specific products or sanding as well as removing any condensation or residues of washing water.
- ❖ In the case of non-absorbent or highly absorbent supports (EXAMPLE Brick/Wood) prime the support with HYDRO PROTECTION PRIMER in order to regulate drying times, uniformity and better adhesion.

Ways of use

- ❖ Apply HYDRO PROTECTION evenly in two coats and at thicknesses of approximately 0.5 mm per coat, placing a layer of TNT 100 geotextile fabric between one coat and the other; wait about 1 hour until the first coat with the TNT attached is sufficiently dry and anchored, checking that the product has a darker and more opaque colour, before applying the next coat.
- ❖ The final thickness of the waterproofing system created by HYDRO PROTECTION and TNT 100 must never be less than 1 mm in order to create a consistent, elastic and continuous film, taking care that there are no interruptions due to imperfections in the substrate.
- ❖ The combination between the HYDRO PROTECTION liquid sheath and the TNT 100 geotextile fabric creates a highly resistant and elastic waterproofing system, this system is ideal for waterproofing: roofs, balconies, terraces, etc.
- ❖ In the case of balconies, bathrooms, saunas, Turkish baths, it is possible to carry out hydraulic tightness tests 12 hours after the application of the last coat of HYDRO PROTECTION.
- ❖ The coverings can be laid 3/4 hours after the second coat, depending on the conditions of the working environment.
- ❖ There is the possibility of using HYDRO PROTECTION even without the aid of fabric, in cases of small areas where it is certain that the support will not undergo expansion or settlement over time while maintaining a minimum dry thickness of 1 mm. of rolled out product.
- ❖ In situations of use, both flooring and covering, where there are corners, especially between walls and attics, it is always advisable to embed the EDMEC TNT1 fabric between one coat and the other, which significantly improves the natural thermal expansions over time and settlement also due to structural deflections.
- ❖ For the installation works above of ceramics, stone material or mosaics, in order to maintain the right elasticity and adhesion, it is advisable to use highly deformable class C2 EDMEC adhesives, for example: on balconies and terraces use CP 300 (class C2TE S1), CP 350 (C2TE S1 class), fast CP 350 (C2FT S1 class) or CP 400 (C2TE S2 class); in the case of internal surfaces not particularly subject to expansion for the installation of floors, walls and mosaics, use CP 250 flex (class C2TE), CP 250 fast (class C2F), or better yet CP 300 (class C2TE S1) or CP 350 fast (C2FT S1 class).
- ❖ In both internal and external corner situations where normal settlement expansions are expected, always use the appropriate EDMOBAND PT150 or EDMOBAND TPE 120 reinforcement tapes, completely embedded between one coat and the other of product.
- ❖ After applying Primer HYDRO PROTECTION PRIMER, excellent under-tile waterproofing systems are obtained with 1 kg. Per square metre. Of HYDRO PROTECTION + related TNT 100 interconnected fabric.

Warnings and precautions for use

- ❖ Apply HYDRO PROTECTION at temperatures between +5°C and +40°C
- ❖ Always comply with current regulations and national provisions.
- ❖ HYDRO PROTECTION must always be covered with cladding and/or in areas not subject to solar radiation and/or foot traffic.
- ❖ Do not apply HYDRO PROTECTION on cementitious substrates with residual humidity greater than 3% or subject to continuous rising humidity.

- ❖ Do not apply HYDRO PROTECTION on friable cementitious supports or on pre-existing floors that do not adhere well to the support or with surface treatments that hinder adhesion.
- ❖ Do not use HYDRO PROTECTION to mask cracks.
- ❖ Protect from rain for at least 1 hour after applying the first coat and 3 hours after applying the second coat. (this performance varies based on temperature and humidity).

Cleaning

Cleaning of tools and any product residues from surfaces must be carried out with water on fresh product. Once hardened, the product can be removed mechanically or with the use of solvents.

Technical data

<u>Description</u>	<u>Data measured at +23°C & 50% RH</u>	
<u>Density mass</u>	1.30 Kg./dm ³ ±10%	
<u>pH</u>	9.5	
<u>Brookfield viscosity</u>	50000 mPa·s	
<u>Minimum filming temperature</u>	+5°C	
<u>Application temperature</u>	From +5°C to +40°C	
<u>Waiting time between first and second coat</u>	Approximately 60 minutes (when dry to the touch)	
<u>Waiting time for the installation of the covering</u>	3/4 hours	
<u>Complete drying</u>	12 hours	
<u>Initial membership</u>	≥ 1.8 N/mm ²	EN 14891-A.6.2
<u>Adhesion after contact with water</u>	≥ 1.0 N/mm ²	EN 14891-A.6.3
<u>Adhesion after heat action</u>	≥ 1.9 N/mm ²	EN 14891-A.6.5
<u>Adhesion after freeze-thaw cycles</u>	≥ 1.0 N/mm ²	EN 14891-A.6.6
<u>Adhesion after contact with water and lime solution</u>	≥ 1.4 N/mm ²	EN 14891-A.6.9
<u>Adhesion after contact with chlorinated water</u>	≥ 1.0 N/mm ²	EN 14891-A.6.7
<u>Crack- bridging under standard conditions</u>	≥ 2.0mm	EN 14891-A.8.2
<u>Crack- bridging at low temperature (5°C)</u>	≥ 1.2mm	EN 14891-A.8.3
<u>Impermeable to water under pressure</u>	No penetration at least 1 mm of dry product	EN 14891-A.7
<u>Color</u>	Sky blue	
<u>Wet yield</u>	1.3 Kg/m ² per mm of thickness	
<u>Yield per 1 mm of dry product</u>	1.8 Kg/m ² per mm of thickness	
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