

T1 HP

Single-component, continuous acrylic membrane in fibre-reinforced aqueous emulsion for waterproofing and protecting balconies, terraces, flat roofs that can be walked on, resistant to UV rays and water stagnation.

TROWEL APPLICATION
 ROLLER APPLICATION
 SQUEEGEE APPLICATION
 FOR INDOOR AND OUTDOOR USE
 SINGLE-COMPONENT PRODUCT
 CE UNI EN 14891
 CE UNI EN 1504-2

WATER STAGNATION RESISTANT
 HIGH ELASTICITY
 WALKABLE
 FIBRATED
 RESTORATION OF OLD WATERPROOFING SURFACES
 EASY LAYING

UV-RESISTANT
 HIGH CRACK BRIDGING
 READY-TO-USE
 IDEAL FOR UNEVEN SURFACES
 ANTI-CARBONATION

Use this QR code for further details on application modalities, safety sheet and other information.

200 Product code



Technical characteristics

| | |
|-------------------------------------------------|----------------|
| Type of mortar UNI EN 14891 | DM O1 |
| Initial adhesion EN 14891 | 1.3 MPa |
| Adhesion after immersion in water UNI EN 14891 | 1.4 MPa |
| Adhesion after heat action EN 14891 | 1.4 MPa |
| Adhesion after freeze-thaw cycles UNI EN 14891 | 1.1 MPa |
| Crack bridging ability at low temperature (-5°) | 1.22 mm |
| Crack bridging ability EN 1062-7 | 0.8 mm |

| | |
|------------------------------------------------------------------|-------------------------------------------------------------|
| Type of mortar EN 1504-2 | Coating (C) according to MC and IR |
| Permeability to CO2 EN 1062-6 | so > 50 m |
| Degree of water vapour transmission UNI EN 7783-2 | Class 1 |
| Grip force for direct traction UNI EN 1542 | 0.8 MPa |
| Resistance to cracking | Class A5 (23 °C) - Class A5 (23 °C) Class A5 (-5 °C) |
| Free water permeability coefficient by capillarity UNI EN 1062-3 | w < 0.1 kg·m⁻²·h^{-0.5} |
| Water impermeability (150 kPa) | No penetration |

Description

Tradielastic T1 HP meets the principles defined in EN 14891 ("Liquid applied waterproofing products for use under adhesive bonded ceramic tiles") and the minimum requirements of EN 1504-2 ("Concrete surface protection system"). It is a single-component, acrylic, fibre-reinforced

waterproofing membrane in aqueous emulsion (DM) with improved crack bridging capacity at low temperature (-5°C) (O1) ready to use. Resistant to water stagnation and UV radiation, suitable for visible walkable surfaces and underfloor waterproofing.

Physical characteristics

| | |
|-----------------|--------------------------------|
| Package | 20 kg |
| Consistency | liquid |
| Dilution | ready to use |
| Colour | White |
| Specific weight | 1.29 g/mL |
| Minimum yield | 2 kg / m ² (1.1 mm) |

| | |
|------------------------------------|-------------------------------------------------------------------------------------|
| Dry residue | 70.5% |
| Drying: dust-free and complete | 6 hours (23 °C ± 3 °C for 1 kg/m ²) 24 hours (23 °C ± 3 °C for 1 mm) |
| Reaction to fire after application | Euroclass E |
| Elongation at break | 51.65 % (23 °C ± 3 °C for 1 mm) |
| Temperature of use | +5 °C/+35 °C |
| Storage period | 12 months in unopened packages |

Fields of application

Waterproofing of exterior and interior surfaces with direct bonding of ceramic coatings. Particularly suitable for application on substrates with a complex geometry and difficult to work with other waterproofing techniques. Indicated for the treatment of:

- balconies, terraces and portions of terraces with irregular geometry gulars;
- concrete tanks intended for the containment of non-aggressive, non-drinking water
- masonry surfaces, concrete, precast concrete, civil plaster;
- undulating or vertical surfaces;
- drips, gutters, drainage channels.
- bathrooms, shower stall;
- walkable waterproofing to be left exposed;
- re-waterproofing of existing floors;
- roofing insulated with polyurethane foams.

Substrate preparation

All surfaces on which the waterproof covering is to be laid must be clean, dry, free of dirt, dust, oil, grease, release agent additives and various treatments, and free of any material that could have a detaching effect. The substrate must be completely dry as the moisture it contains and the vapour created by radiation can cause blistering and detachment of the waterproofing coating.

Treat joints and any cracks in the substrate with suitable techniques. Control joints, insulation joints, connections between horizontal and vertical elements must be sealed with Tradiflex. Cracks and static lesions must be treated with suitable skimming compounds.

Product preparation

T1 HP is ready to use and should therefore neither be diluted nor reinforced through the use of reinforcement and/or meshes. Avoid direct application on damp surfaces or in the presence of moisture or on lightened screeds. For applications on new cementitious substrates wait until they have cured completely. Do not work on substrates with non-visible waterproofing (underfloor, subfloor, etc.).

Provide steam vents where necessary. Avoid the application of high thicknesses in a single layer. After application, any residual stickiness can be removed with cement dusting. T1 HP layers, which are not completely dried out, are damaged by the action of rain, dew and fog.

Product application

After carrying out the planned preliminary work (preparation of the substrate) and observing the instructions for the relevant fields of use, apply two or more cross-coats of T1 HP with a smooth trowel, brush or rubber trowel with a total consumption of no less than 2 kg/m². Cross-layering is compulsory to allow for the arrangement of fibres in both longitudinal and transverse directions. Before tiling, in appropriate climatic conditions, allow the applied product to dry for at least 2 days (time may increase depending on outside temperature and degree of humidity). Carry out a preliminary hydraulic tightness test of the waterproofing when

perfectly dried, prior to the laying of any coatings. In accordance with EN 14891, the use of improved cement adhesives of class C2 or higher, such as Tradicoll MC2 adhesive, is prescribed for the laying of tiles and wall coverings. Tools should be cleaned with water when the product is fresh.

On old floors/coatings check the condition of the joints, remove and restore loose coverings or flooring parts. Pre-treat with Tradicoll Grip anchoring primer with a consumption of 300 g/m².

Advantages

High elasticity

The presence of thermoplastic polymers allows the product to combine excellent waterproofing with excellent crack-bridging capacity, making it compatible with normal dynamic stress

due to thermal and mechanical expansion and contraction of supports.

Specification item

Water-resistant products applied in liquid dispersion. Waterproofing carried out by applying at least two coats by trowel or brush, of a single-component fibre-reinforced continuous membrane with a minimum thickness of 1 mm, such as T1 HP by Tradimalt S.p.A. Application must be

carried out in criss-crossed layers to enable the arrangement of fibres in both longitudinal and transverse directions.

Minimum consumption 2 kg/m². Certified according to UNI EN 1504-2 and UNI EN 14891.



REA No. CH 135733 for

TRADIMALT S.p.A.
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TIRRENA 98049 MESSINA - ITALY
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UNI EN 1504-2

Tradielastic T1 HP

Liquid applied waterproofing product, coating (C) for the protection of concrete by means of protection against penetration risks, moisture control and increased resistivity.

Permeability to CO₂: S_D >50 m
Water vapour permeability: Class 1
Capillary absorption and water permeability: w<0.1 kg/(m²xh^{0.5})
Direct traction adhesion force >0.8 MPa
Resistance to cracking: Class A5 (23°C); Class A5 (0°C); Class A5 (-5°C)
Dangerous substances: See SDS



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UNI EN 14891

Tradielastic T1 HP

Liquid-applied waterproofing product in dispersion DM01.

Initial adhesion: 1.3 MPa
Adhesion after immersion in water: 1.4 MPa
Adhesion after heat action 1.4 MPa
Adhesion after freeze-thaw cycles 1.1 MPa
Tensile adhesion after immersion in water saturated with lime: 0.9 MPa
Crack bridging ability: 1.28 mm
Water impermeability: no penetration
Hazardous substances: See SDS



This is Tradimalt's way of communicating, in its information and technical-commercial material, the composition of each product and some of the product's key features. Therefore, the focus is on supply chain transparency, not required by any relevant regulation but which Tradimalt nevertheless intends to offer to its customers in order to emphasise the quality of the raw materials, and thus of the product, as well as the safety that the company intends to demonstrate with regard to formulations. The focus is therefore in the "transparency" that the company intends to manifest in the supply chain, which is not required by any current formulation law.

Raw materials contained in the product

Selected raw materials:

- Thermoplastic resins and inert fillers give the product extraordinary impermeability;
- Pigments, titanium dioxide

Warnings

Do not lay Tradielastic T1 HP:

- if frost is expected in the following 24 hours;
- at temperatures below 5 °C or above 35 °C;
- on substrates that have not yet fully matured;
- on frozen or overheated substrates;
- with water, cement, aggregates or other additions;
- for coat thicknesses >2 mm per coat.
- in case of imminent rain, dew and fog.

T1 HP layers that are not completely dried out are damaged by rain, dew and fog.

Store the product in dry, well-ventilated places for up to 12 months. T1 HP fears frost, therefore store containers at temperatures above 5 °C.

The technical-practical information contained in the technical data sheet is the result of our most accurate and detailed scientific research and experience in the field. However, since we cannot directly influence the site conditions and the execution of the work, this information is to be considered non-binding and therefore not legally or otherwise mandatory for third parties. This information does not exempt the end user from their responsibility to test our products in order to ascertain their suitability for the intended use. We therefore strongly advise the customer/applicator to carry out the appropriate preventive tests of Tradimalt products so that their suitability can be ascertained.