



## HYBRID MEMBRANE

### SALES FORMAT

15L, 4L, 1L



### DESCRIPTION

Coating that combines aliphatic polyurethane and self-crosslinking acrylic resins, creating a waterproof and puddle-resistant membrane. ELASTIK technology offers flexibility and high tensile strength, adapting to uneven surfaces and withstanding expansion and contraction movements. UV-cross-linked, the Hybrid Membrane resists soiling and guarantees up to 15 years of durability. Its excellent adhesion and resistance to thermal changes make it ideal for waterproofing roofs, while its TK3 trafficability allows daily use without affecting protection.

### SCOPE OF APPLICATION

Exterior. Cement mortar. Roofing felt. Brick. Catalan Rasilla. Concrete. Terraces. Roofs. Roofs. Dividing walls. Metal supports. Galvanised steel.

### PROPERTIES

- High elasticity, does not crack or cracking
- Resists contraction and expansion
- Fully waterproof
- Anti-carbonation
- Good resistance to standing water
- Good adhesion
- Passable in restricted areas
- UV-resistant

### TECHNICAL DATA

Finishing	SEMIMATE	UNE-EN 1062-1	
Colour	White and Red		
Brightness 85°.	10 - 15	ISO 2813	
60° Brightness	6 - 10	UNE-EN ISO 2813	
Theoretical performance	0.83 L/m <sup>2</sup> at 450µm dry	ISO 23811	
Density	1,34 ± 0,05 g/ml	ISO 2811-1	
Viscosity	50 ± 10 Pa·s (20 rpm, R6)	ASTM D 2196-10	
Solids by volume	53 ± 2%	ISO 23811	
Fire classification	Broof (t1)	EN 13501-1: 2019	5505T25-2
VOC	<20 g/L. EU maximum permitted: 140 g/L.	2004/42/II A Classification (i)	
<b>Diluent</b>	Water		
<b>Dilution</b>	Not recommended, except for coats primer.		
<b>Repainting time</b>	14-16 hours		
<b>Drying time</b>	Touch-drying	4-8 hours	UNE 48301
	Total drying	20-30 days	
	Washing:	25-30 days	
<b>Cleaning</b>	Water		

The specified technical data may vary in case of material tinting.

## PREPARATION OF THE SUBSTRATE

### GENERAL RECOMMENDATIONS

Outdoors, do not apply if rain is expected, in full midday sun or on humid days.

#### TARPAULINS:

Asphalt can cause exudations which do not affect its properties. Moisture should be treated with care, as should entrapped air, check roughness and finish before coating work commences. Always use a mesh reinforced system. Clean with pressurised water and use a suitable biocide. All cracks should be pre-sealed with HYBRID MEMBRANE to secure the waterproofing. If the failure has occurred at the junction of the fabrics, the problem can be solved by sealing them by applying an abundant layer of ACRYLIC FIBRE MEMBRANE. Subsequently, and once this application is dry, 2 coats of HYBRID MEMBRANE protruding from the union of the fabrics by at least 10cm, reinforcing these with mesh. If there is any suspicion of possible failure of the fabric in areas other than the joints, clean the entire surface thoroughly and proceed as indicated for the corresponding surface.

#### OLD CONTINUOUS COAT WATERPROOFING:

Fill any cracks and fissures with MEMBRANA HIBRIDA mixed with fine washed sand, in a 2:1 ratio, applied with a flat spatula. Once dry, apply a coat of MEMBRANA HIBRIDA to the entire surface, following the same direction of application. To obtain high waterproofing performance, place a mesh between the first and second coat. Then apply a second coat of HYBRID MEMBRANE, in a transverse direction to the direction of the first coat, to obtain a minimum thickness of 1 mm. It is important to also waterproof the vertical walls, at least up to a height of 15 to 20 cm.

#### CONSIDERATIONS FOR OTHER MEDIA:

##### CONCRETE:

The surface must be dry and have the necessary air maturing time (minimum 4 weeks). The substrate must comply with the requirements of the standard for concrete UNE-EN ISO 1504-2. If the surface has a disintegrated or powdery appearance, apply 1 coat of TKROM FIJATIVO F1 beforehand.

##### STONE, BRICK, SLATE OR TILE:

Pressure wash and use a biocide if necessary. Follow conventional preparation procedures. In the case of slate or tile, treat with a special reinforcement before applying the system.

##### BITUMINOUS MEMBRANE:

Replace the bituminous membrane in poor condition. Treat blisters by opening and removing occluded water. Dry and apply a fibreglass patch with HYBRID MEMBRANE. Then apply the waterproofing.

##### PLASTIC:

Apply the waterproofing system directly. An adhesion test is recommended before applying the treatment.

##### MASONRY PLASTERING AND RENDERING:

The state of the substrate must comply with the standard for mortars UNE-EN 998-2, and following its specifications, the adhesion value to the substrate must be in accordance with that specified in the manufacturer's CE marking. In no case should it be less than 0.2 N/mm<sup>2</sup>. The average value must be 0.3 N/mm<sup>2</sup>.

##### PAINTINGS:

It is not recommended to apply on paints, they must be previously removed by water or sand blasting. The quality of old coatings is important. Their adhesion should not be less than 0.7 N/mm<sup>2</sup>, and the average value should be higher than 1N/mm<sup>2</sup> (ISO 1504-2). Poor adhesion: Use suitable mechanical means to remove old coatings. The substrate must be suitably prepared to accept the new finish. Correct adhesion: Clean the entire surface with a steam jet or high pressure water jet.

#### METAL BRACKETS:

The surface treatment of some metal profiles implies that the behaviour to be followed must be consulted beforehand. When we are dealing with ferrous metals, galvanised, copper, lead, aluminium, stainless steel or brass, we must remove any type of dirt or oxidation product. Once cleaned, we can start with the waterproofing system. Overall, where possible, an abrasive treatment should be applied until the metal surfaces are bright and shiny. Prime if necessary and reinforce joints and fastenings. Then apply the waterproofing system.

#### LIGHT METALS AND GALVANISED SHEET METAL:

It may be advisable to apply a specific primer for this type of surface depending on its state, such as IMPRIMACIÓN EPOXI 2C TKROM GLASS (325). Next, apply two coats of HYBRID MEMBRANE, inserting a fibreglass mesh between coats, and achieving a minimum thickness of 1 mm and a maximum of 3 mm.

**IRON OR STEEL:**

All traces of corrosion must be previously removed and primed once clean and dry with specific products for its protection such as TKROM IMPRIMACIÓN SINTETICA ANTICORROSIVA (628) or TKROM IMPRIMACIÓN EPOXI 2C ANTICORROSIVA (317).

**CLEANING OF THE SUPPORT:**

It is necessary to eliminate all those elements that, if they remain while we apply our treatment, may be harmful to the durability and resistance of the treatment. As these are areas with a high level of humidity for long periods of time, the presence of microorganisms is more than usual, which must be properly eliminated prior to waterproofing. To do this, we will eliminate mould and moss, using mechanical methods such as spatulas, metal scourers, brushes and applying 10-20% dilutions of bleach by brush or spray.

Once the surface has been cleaned of all traces of bleach, then apply TKROM Reinforcing Cleaner. If the attack of microorganisms is very severe, this treatment can be repeated, and it is also very convenient in these cases to apply, after 24-48 hours, a coat of TKROM Sealer-Sanitizer Primer. After cleaning with water, wait 24-48 hours before proceeding with the following works.

**SURFACE CONSOLIDATION:**

Damage caused by the ageing of the surface itself, as well as possible damage caused during cleaning and disinfection, must be repaired beforehand.

For this purpose, we recommend the use of the product "TKROM PLAST", which is very easy to apply and sand, following as always the preparation and application instructions described in its technical data sheet.

If the terrace to be waterproofed has a ceramic or tiled floor, it is advisable to reconstruct the joints between tiles, prior to the waterproofing treatment. For this purpose, a cement grout shall be used. Other critical points where waterproofing defects may occur are: joints between vertical walls and the terrace, vertical wall ledges, joints of ventilation or drainage ducts and pipes, drainage grilles, expansion joints and vertical walls surrounding the terrace.

In these critical points, it is advisable to take special care in cleaning and reconstruction work. MEMBRANA HIBRIDA can be used mixed with fine washed sand in a 2:1 ratio or with the incorporation of fibreglass mesh between the coats of the waterproofing. Once the surface has been cleaned and repaired, we can start with the waterproofing of the terrace.

**IMPLEMENTATION SYSTEM:**

SYSTEM	PRODUCT	THEORETICAL QUANTITY	DILUTION	LAYERS
<b>COATING</b> (very porous substrates, unpainted aged surfaces, substrates with efflorescence)	TKROM FIXED F4	14-18 m <sup>2</sup> /L	1:4 water	1 o 2
	TKROM PLIOTEC WATER-BASED FIXATIVE	10-14 m <sup>2</sup> /L	No dilution	1 o 2
<b>COATING</b> (Surfaces with low absorbency, aged paints)	TKROM FIXED F1	14-18 m <sup>2</sup> /L	1:1 water	1 o 2
<b>COATING</b> (Substrates with micro-organisms)	TKROM LIMPIADOR REFORZANTE	n.a.	No dilution	1 o 2
	TKROM SEALER-SANITISER PRIMER	14-18 m <sup>2</sup> /L	No dilution	1 o 2
<b>PRIMING</b>	DILUTED HYBRID MEMBRANE	0.74 l/m <sup>2</sup>	3:1 water	1 o 2
<b>FINISHING (mesh reinforcement recommended between coats)</b>	HYBRID MEMBRANE	1.66 L/m <sup>2</sup> (0.9 mm minimum final thickness)	No dilution	1 o 2

## CONDITIONS OF APPLICATION

<b>Substrate and Ambient Temp.</b>	Min. +5°C / Max. +35°C
<b>Ambient humidity</b>	Max. 80% of the total
<b>Humidity Substrate</b>	Dry substrate with humidity < 4 %. Cement mortars, allow to set completely (28 days minimum). Cement-based products, allow to dry for at least 4 days before coating.
<b>Rocio Point</b>	The substrate temperature must be at least 3°C above the dew point to reduce the risk of detachment or efflorescence.

## RECOMMENDATIONS FOR IMPLEMENTATION

<b>Product preparation</b>	Stir until the product is well homogenised.
<b>Method of application</b>	It can be applied by brush, short nap roller or airless spraying. For airless spraying, a 0.38 to 0.53 mm nozzle is recommended. Due to the high thixotropy of the product, high spray pressures are not required.
<b>Preparation</b>	Shake to homogenise the product. Adjust the viscosity with water. The second coat of the product should be applied perpendicular to the first coat to achieve optimum opacity.

## ADDITIONAL DATA

<b>Health and safety</b>	For any information concerning safety issues in the use, storage, transport and disposal of this product, users should consult the labelling and the most recent version of the MSDS, which contains safety, ecological and toxicological information on the product.
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Safety Data Sheet: Please refer to the most recent version. LER CODE: 08 0112 | WASTE TYPE: NON-HAZARDOUS

<b>Storage</b>	The stability of the product in its original unopened containers, at ambient temperatures of not more than 30 °C and not less than 5 °C shall be 24 months from the date of manufacture. Storage shall be in a cool, dry place, in their original containers, tightly closed, undamaged and protected from frost and direct sunlight.
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<b>Tariff heading</b>	TARIC code: 3209 10 00
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<b>NOTE</b>	The technical information contained in this document is provided in good faith, based on laboratory tests and practical experience under normal conditions. However, the data may be subject to variations, especially in case of material tinting or use of intense colours, where parameters such as density or volume solids may be affected without compromising the performance of the product. The user is recommended to verify the suitability of the product for his specific application and to request the corresponding colour safety data sheet from his distributor for consultation.
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