



This product has been granted the European conformity mark **CE** (System 2+) PRODUCT No.: 3.117

TECMADRY[®] F

Flexible, Single-component Hydraulic Waterproofing Cementitious Mortar

DESCRIPTION:

Flexible, single-component hydraulic waterproofing cementitious mortar with a single component, that prevents and eliminates damp both above and below ground level. **TECMADRY[®] F** completely seals the surfaces it is applied to, and prevents water filtration under both negative and positive pressure conditions. Due to its special formula, **TECMADRY[®] F** does not alter the water vapour transmission properties of the surfaces it is applied to, which means they can continue to breathe naturally.

USES:

TECMADRY[®] F is recommended for the treatment and prevention of damp. It provides unbeatable waterproof protection on: concrete, cement rendering, cement mortar, concrete blocks, plastered brick, stonework etc.

It proves highly efficient when waterproofing:

- Interior and exterior basement walls, air chambers, facades.
- Lift shafts.
- Foundations and first-layer brickwork.
- Tunnels and balconies.
- Tanks and swimming pools.
- Water cisterns.
- Slab floor edges.
- Pools and fountains.
- Grain silos.
- Dams.

TECMADRY[®] F due to its high resistance to outdoor conditions and its incomparable finish, can just be applied and left to dry - there is no need to paint over it. It achieves the aesthetic and decorative properties of other finishes.

SURFACE PREPARATION:

Surfaces must be clean and free from any contaminants such as grease, oil, the remains of any concrete release agents, grout, dust, sand or an loose or badly-adhered particles etc. Any paint and the remains of any other waterproofing agents must be removed. Any efflorescences or mineral salts must be removed before applying **TECMADRY[®] F**. Any damaged areas must be repaired beforehand, using **PREMHOR** or **PREMHOR -R**. If there are any leaks, seal them with **PROQUICK** and then apply a coat of **PREMHOR** grout before applying **TECMADRY[®] F**. Before applying **TECMADRY[®] F** on any surface, you must first moisten the surface with water.

INSTRUCTIONS:

Prepare the required amount of water and add **TECMADRY[®] F**, stirring the mixture until it is completely aggregated. As a guideline, use approximately between 6.0 and 6.5 litres of water for each 25 kg bag of **TECMADRY[®] F**. It is recommended that you use a mechanical mixer to knead the mass. Start mixing with just a little water, beating it slowly but constantly.



Add water to the even paste until it reaches the necessary consistency, making sure no lumps are allowed to form. It is not a good idea to stir too quickly, as a lot of air will get into the mixture which will give rise to craters and porosity when it comes to applying it. Let the mixture sit for about 5 minutes, this will help it set better.

Although **TECMADRY[®] F** has exceptional adherence and flexibility, you are highly recommended to add **CRYLADIT** to the mixing water, at least 2 litres of **CRYLADIT** for each 25 kg bag of the product, as this will improve the properties of the mortar even more (impermeability under pressure, adherence, curing etc.). **TECMADRY[®] F** should be mixed using a solution of water and **CRYLADIT** in a proportion of 2 parts of water for each part of **CRYLADIT**. Before kneading it, dilute **CRYLADIT** in water and then add this solution to **TECMADRY[®] F**, stirring until you obtain a smooth mixture. One 25 kg bag of **TECMADRY[®] F** will need approximately 4.0-4.5 litres of water and 2 litres of **CRYLADIT**.

APPLICATION:

Follow these steps when applying the product:

- 1.- Moisten the surface by spraying it with clean water.
- 2.- Apply the mass of **TECMADRY[®] F** and water using a special short-hair brush. Extend a first coat over the entire surface.
- 3.- Let the coat that you have applied dry for some 8-12 hours depending on the weather.
- 4.- Moisten the coat that you have applied to let it set better, before you apply the second coat.
- 5.- Apply a second coat perpendicular to the first one, and cover the entire surface.
- 6.- Every so often, moisten the coat that you have applied to ensure that it sets evenly.

SPECIAL RECOMMENDATIONS:

- Do not apply when the temperature falls below 5°C or if frost is expected in the next 24 hours.
- Do not apply on frozen or frosty surfaces.
- Do not moisten the wall too much in low temperatures, without their reaching 5°C.
- Do not apply to gypsum plaster, paint or lime.
- Let it cure for at least 7-14 days (depending on the temperature and the atmospheric humidity) before filling with water or painting.
- It is best to let some time go by so that the surface can settle and stabilise before applying **TECMADRY[®] F**. This would normally be about 2 months.

QUANTITY:

To make sure the surface is correctly waterproofed, we recommend you use between 1.5 and 2 kg/m². When water pressure conditions apply, for example swimming pools, cisterns etc., you should use between 3 and 4 kg/m².

COLOURS:

TECMADRY[®] F is available in white.

ACCREDITATIONS:

Marked **CE** as compliant with standard **EN 1504-2 (system 2+)** and with European construction products regulations.

**TECHNICAL DATA:**

<i>Apparent density of the component in powder form</i>	<i>1.15 g/cm³</i>
<i>Granulometry (EN 12192-1)</i>	<i>0 – 0.6 mm</i>
<i>Pot life</i>	<i>Approx. 30 minutes</i>
<i>Temperature of application</i>	<i>from +5 to +30°C</i>
<i>Apparent density of the fresh mortar (EN 1015-6)</i>	<i>1920 kg/m³</i>
<i>Setting time (EN 13294)</i>	<i>Initial: 5 hours Final: 6-7 hours</i>
<i>Water vapour permeability (EN ISO 7783-1/-2) (Equivalent air barrier)</i>	<i>S_D < 5 metres Class I (EN 1504-2) Permeable to water vapour < 0.1 kg/m².h^{0.5}</i>
<i>Liquid water permeability (EN 1062-3)</i>	<i>Water impermeability (EN 1504-2)</i>
<i>Adherence on a concrete structure (EN 1542) (28 days)</i>	<i>1.07 MPa (Product cohesive breakage)</i>
<i>Adherence on a ceramic structure (EN 1542) (28 days)</i>	<i>0.92 MPa (Product cohesive breakage)</i>
<i>Adherence on a concrete structure (EN 1542) (6 months)</i>	<i>2.81 MPa (Product cohesive breakage)</i>
<i>Adherence on a ceramic structure (EN 1542) (6 months)</i>	<i>1.15 MPa (Surface cohesive breakage)</i>
<i>Compression resistance (EN 12190)</i>	<i>> 35.0 MPa</i>
<i>Flexotensile strength (EN 196-1)</i>	<i>> 9.0 MPa</i>
<i>Dangerous substances (EN 1504-2)</i>	<i>Complies with section 5.3 of standard EN 1504-2</i>

PRESENTATION AND STORAGE:

TECMADRY® F comes in 25 kg net multiply paper bags. **TECMADRY® F** must be kept sealed in the original bags. The storage period, in the original bags, should not exceed 12 months.

TECMADRY® is a registered trade name and property of Industrias Químicas Satecma® S.A.

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