

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/m<sup>2</sup>. When water pressure conditions apply, for example swimming pools, cisterns etc., you should use between 3 and 4 kg/m<sup>2</sup>.

### 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:

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

## 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.

ED. 2013/6