

This product has been granted the European conformity mark  $\text{CE}$  (System 2+)

PRODUCT No.: 3.107

## TECMADRY®

### Hydraulic Waterproofing cementitious mortar

#### DESCRIPTION:

Hydraulic waterproofing cementitious mortar, that prevents and eliminates damp both above and below ground level. **TECMADRY®** completely seals the surfaces it is applied to, and prevents water filtration under both negative and positive pressure conditions. Its ease of application makes **TECMADRY®** the best and the most economic waterproofing system on the market.

Due to its special formula, **TECMADRY®** 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®** 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.
- Drinking-water cisterns.
- Slab floor edges.
- Pools, fountains and planter boxes.
- Grain silos.
- Dams.

**TECMADRY®**, 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®**. Any damaged areas must be repaired beforehand, using **PREMHOR**. If there are any leaks, seal them with **PROQUICK** and then apply a coat of **PREMHOR** grout before applying **TECMADRY®**. Before applying **TECMADRY®** on any surface, you must first moisten the surface with water.

#### INSTRUCTIONS:

Mix **TECMADRY®** with clean water in a suitable container, and knead it until you obtain a homogenous, pasty-fluid consistency. As a guideline, use some 6 to 7 litres of water for each bag of **TECMADRY®**. You should always make sure that this pasty mass is lump free and as homogenous as possible. It is recommended that you use a mechanical mixer to knead the mass.

Let the mixture sit for about 10 minutes, this will help it set better.

#### APPLICATION:

Follow these steps when applying the product:

- 1.- Moisten the surface by spraying it with clean water.

- 2.- Apply the mass of **TECMADRY**<sup>®</sup> and water using a special short-hair brush. Extend a first coat over the entire surface.
- 3.- Let this coat dry for approximately 6-12 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 APPLICATIONS:

When you want to reinforce or improve adherence to certain surfaces, mix **TECMADRY**<sup>®</sup> in a solution of water and **CRYLADIT** in proportions of at least 1 part **CRYLADIT** for every 3 parts of water. Before kneading it, dilute **CRYLADIT** in water and then add this solution to **TECMADRY**<sup>®</sup>, stirring until you obtain a smooth mixture. One bag of **TECMADRY**<sup>®</sup> will need approximately 5 litres of water and 1.5 - 2 litres of **CRYLADIT**.

### 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.
- In the case of tanks that are intended for drinking water, rinse with water several times before finally filling the tank.

### COUNTER INDICATIONS:

As in any rigid mortar, do not apply this product to surfaces that are subject to strong movements. It is best to let some time go by so that the surface can settle and stabilise before applying **TECMADRY**<sup>®</sup>. 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**<sup>®</sup> is available in white and grey.

### ACCREDITATIONS:

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

**TECMADRY**<sup>®</sup> is deemed suitable for use in contact with drinking water according to the **Migrations Report No. 07457** issued by the "Laboratorio Oficial Joaquín Riera Tuebols" (O.T.E.C.) (white colour).

The effectiveness of **TECMADRY**<sup>®</sup> as a cement-based waterproofing agent has been acknowledged by numerous organisms and institutions such as:

- The EDUARDO TORROJA Institute of Construction Sciences, in DIT No. 262.
- TELEFÓNICA ESPAÑA with approval No. 367/22.
- CEDEX, record No. 44.137.
- INCE, test No. 460/84-M
- The University of Oxford.
- The Official Chinese Laboratory in Beijing (Report No. BC-2004-1251)
- The Official Chinese Laboratory in Shanghai (Report No. WA04-0046)
- THE TECHNICAL CENTRE FOR THE DEVELOPMENT OF CONSTRUCTION MATERIALS of the MINISTRY FOR CONSTRUCTION of the Republic of Cuba (DITEC No. 128).
- CERTIFICATION TECHNOLOGICAL CENTRE (APPLUS+) (Dossiers No. 3001991 and 4000080)
- CIDEMCO (Reports No. 18052/1, 18052/4 and 18052/5).

## 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)	2000 kg/m <sup>3</sup>
Setting time (EN 13294)	Initial: 1-2 hours Final: 2-4 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)
Determination of the depth of penetration of water under pressure (EN 12390-8:2001) (5 kg/cm <sup>2</sup> – 72 hours)	0 mm (Water does not penetrate)
Adherence on a concrete structure (EN 1542) (28 days)	2.00 MPa (Product cohesive breakage)
Adherence on a ceramic structure (EN 1542) (28 days)	1.19 MPa (Surface cohesive breakage)
Adherence on a concrete structure (EN 1542) (6 months)	3.84 MPa (Product cohesive breakage)
Adherence on a ceramic structure (EN 1542) (6 months)	1.09 MPa (Surface cohesive breakage)
Compression resistance (EN 12190)	> 35.0 MPa
Flexotensile strength (EN 196-1)	> 6.0 MPa
Reaction to fire (EN 1504-2)	Euroclass A1
Dangerous substances (EN 1504-2)	Complies with section 5.3 of standard EN 1504-2
Apt for use in contact with water destined for human consumption (Report No. 07457 – O.T.E.C. Joaquin Riera Tuebol S.A.)	APT (white colour)

## PRESENTATION AND STORAGE:

**TECMADRY®** comes in 25 kg net multiply paper bags. **TECMADRY®** must be kept sealed in the original bags. The estimated 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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