

This product has been granted the European conformity mark  (System 2+) PRODUCT No.: 3.134

## TECMADRY® R.P.A.

Waterproofing flexible cementitious mortar for leveling to be applied exclusively with a trowel in thicknesses of between 2 and 5 mm

### DESCRIPTION:

**TECMADRY® R.P.A.** is a cement-based waterproof coating which protects and decorates the surfaces to which it is applied. It requires the use of a trowel. **TECMADRY® R.P.A.** effectively waterproofs the surfaces to which it is applied, preventing any water seepage. Its ease of application makes **TECMADRY® R.P.A.** the best and the most economic waterproofing system on the market. Due to its special formula, **TECMADRY® R.P.A.** 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® R.P.A.** is particularly recommended:

- As a waterproof and protective coating for facades made with **polystyrene foam** panels.
- In numerous tasks involving the waterproofing and protection of facades. Due to its high resistance to outdoor conditions and its incomparable finish, it can just be applied and left as it is - there is no need to paint over it. It allows the aesthetic and decorative properties of other surfaces to shine through.
- When leveling, waterproofing and protecting numerous civil engineering works: tunnels, irrigation canals, silos, girders and pillars in bridges, dams, water treatment plants etc.
- Waterproofing and protecting basements and foundations, balconies, walls etc.
- As a leveling coating (irregularities, small cracks cavities etc.) before applying the two waterproofing agents **TECMADRY®**, **TECMADRY® F** or **TECMADRY® ELAST.**
- As a coating to protect against abrasion or wear and tear after the application of the waterproofing agents **TECMADRY®**, **TECMADRY® F** or **TECMADRY® ELAST.**
- As a finishing coating, applied with a trowel, after the application of the waterproofing agents **TECMADRY®**, **TECMADRY® F** or **TECMADRY® ELAST.** (e.g. in swimming pools that are going to be painted afterwards).
- In order to obtain a smooth finish.

### ADVANTAGES:

- Provides a waterproof, protective and decorative coating.
- Ideal for leveling and heightening thin surfaces.
- Permeable to water vapour, which allows the surface to breathe.
- Good adherence on a wide range of surfaces.
- Non-toxic.
- Does not contain chlorides.
- Easy to use.
- Mix with water.
- Long-lasting

### 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 any loose or badly-adhered material etc. Before applying **TECMADRY® R.P.A.** to mortar and concrete surfaces, you must first moisten them with water.

### INSTRUCTIONS:

Mix **TECMADRY® R.P.A.** 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 4.5 litres of water for each bag of **TECMADRY® R.P.A.** 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 5 minutes, this will help it set better.

## APPLICATION:

Apply the product with a **trowel**. Use on average approx. **1.6 - 1.8 kg/m<sup>2</sup> and mm thickness** (3.4 - 8.5 kg/m<sup>2</sup> to obtain a thickness of 2 - 5 mm). For the final finish, smooth the product with a trowel or a darby. If the final finish involves decorating it with paint, let it cure for at least 7 -14 days, depending on the weather, before painting it with **TECMA PAINT SILICATOS**.

## APPLYING THE PRODUCT TO SHEETS OF POLYSTYRENE FOAM

The surface that is to be coated must be clean and free from any contaminant (dust, grease, loose materials etc.). When applying the product to polystyrene foam sheets, these must be properly attached in order to avoid any manner of movement while the mortar is still fresh.

## SPECIAL APPLICATIONS:

When you want to reinforce adherence to certain surfaces, mix **TECMADRY® R.P.A.** in a solution of water and **CRYLADIT** in proportions of 3 parts of water and 1 part of **CRYLADIT**. Before kneading it, dilute **CRYLADIT** in water and then add this solution to **TECMADRY® R.P.A.**, stirring until you obtain a smooth mixture. One 25 kg bag of **TECMADRY® R.P.A.** will need approximately 3 litres of water and 1 - 1.5 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.

## QUANTITY:

For a correct application, we recommend you use between **1.6 and 1.8 kg/m<sup>2</sup> and mm thickness**.

## COLOURS:

**TECMADRY® R.P.A.** is available in white.

## ACCREDITATIONS:

Marked **CE** as compliant with standard **EN 1504-3 (system 2+)** and with European construction products regulations.

## TECHNICAL DATA:

Apparent density of the component in powder form	1.41 g/cm <sup>3</sup>
Granulometry (EN 12192-1)	0 – 0.8 mm
Temperature of application	from +5 to +30°C
Pot life	Approx. 30 minutes
Apparent density of the fresh mortar (EN 1015-6)	1980 kg/m <sup>3</sup>
Setting time (EN 13294)	Initial: 2-3 hours. / Final: 3-4 hours
Chloride ions content (EN 115-17)	< 0,05 %
Compression resistance (EN 12190)	> 20.0 MPa
Flexotensile strength (EN 196-1)	> 6.0 MPa
Adherence on a concrete structure (EN 1542) (28 days)	> 0.8 MPa
Controlled shrinkage / expansion (EN 12617-4)	> 0.8 MPa / Compliant
Dangerous substances (EN 1504-2)	Complies with section 5.4 of standard EN 1504-3

## PRESENTATION AND STORAGE:

**TECMADRY® R.P.A.** comes in 25 kg net multiply paper bags. **TECMADRY® R.P.A.** 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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