



# CapaPROOF Imper Flex Premium

MONOCOMPONENT FLEXIBLE MORTAR  
FOR WATERPROOFING

Flexible one-component mortar for waterproofing roofs,  
classified as CM O2 P under the UNE-EN 14891 standard.

UNE-EN 14891

- Single-component flexible membrane.
- Crack bridging.
- Suitable for deposits according to RD 140/2003.
- Resistance to chlorinated water and with lime.

## DESCRIPTION

Single-component flexible waterproofing mortar based on special cements, aggregates of controlled granulometry, synthetic resins and organic and inorganic additives.

## APPLICATIONS

- Flexible waterproofing of concrete structures, mortar, block, brick...
- Waterproof sealing of supports prior to laying ceramic tiles or natural stone.
- Waterproofing and surface protection coatings that require flexibility due to the risk of small fissures appearing.
- Waterproofing of deposits, swimming pools and canals.
- Waterproofing of balconies and terraces
- Waterproofing of foundations, pits, slabs, exterior walls, elevator shafts, tunnels, etc.
- Waterproofing of basements, underground car parks.
- Protection of surfaces exposed to ice and de-icing salts
- Protection of concrete structures in marine environments.
- Approved for contact with drinking water according to Royal Decree 140/2003.
- Manufactured with raw materials included in the positive lists of substances allowed for the manufacture of plastic materials and objects intended to come into contact with drinking water (RD 118/2003 BOE of 02/11/03).

## SURFACES

The surfaces must be clean, healthy, free of oil, grease, paint, dust, cement laitance, bituminous residue, etc. The tensile strength of the surface must be  $> 1 \text{ N/mm}$

If necessary, repair the surface 24 hours before with repair mortars from the apliCatec range. The absorbent surfaces will be moistened until saturation but without puddles.

The application will begin when the surfaces acquire a matte appearance.

## HOW TO USE



- 1 Gradually add mains water between 28%-29% of the weight of the bag. Next, add the dry product gradually until the desired consistency is achieved.
- 2 Mechanically knead at low revolutions until a completely homogeneous dough without lumps is obtained.
- 3 The application can be carried out using a trowel, brush, long-haired roller or by projection.
- 4 CapaPROOF Imper Flex Premium can be installed with or without mesh. The union between fiberglass meshes will be made by overlapping about 3-4 cm. The mesh must be completely covered.
- 5 To waterproof, always apply in two coats with a total minimum thickness of 2 mm.
- 6 Apply the second coat in a perpendicular direction once the first coat has hardened (5 hours at 20°C).
- 7 Wait a minimum curing time of 7 days before being covered by paint or before coming into contact with water.
- 8 The finish can be done by troweling.

## PRECAUTIONS AND RECOMMENDATIONS

- Do not apply the product at temperatures below 5°C or above 35°C.
- Do not apply with forecast of rain or frost.
- Never add water to mortar that has lost its workability, as its properties would be lost.
- It is not a walkable coating
- Avoid direct action of the sun and/or wind.
- With rain or wet weather efflorescence may appear, this does not affect the quality of the product.
- CapaPROOF Imper Flex Premium can be painted with solvent-based paints. The curing time for the application of a paint is 7 days.
- Being a cementitious product, the use of rubber gloves is recommended.
- Tools and utensils will be cleaned with water immediately after use. If the product hardens, they can only be removed by mechanical means.

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## PACKAGING

CapaPROOF Imper Flex Premium is presented in BOPP bags, 20kg and 800kg pallets. The material can be used for 12 months from the date of manufacture of the product in suitable conditions of temperature and humidity.



## CHARACTERISTICS

- Impervious to water
- High permeability to water vapor
- Low modulus of elasticity with which high flexibility is achieved, reducing the risk of cracking. Ability to bridge small cracks.
- Valid for both positive and negative pressure.
- Resistant to chlorinated water.
- Resistant to water with lime.
- Slows down the progression of carbonation.
- Excellent adhesion.
- High resistance to ice and deicing salts.
- Approved for contact with drinking water according to Royal Decree 140/2003.

## Structure System

- **CapaPROOF Imper Flex Premium** is part of a repair/waterproofing system that includes:
  - **aplicaTec Armaduras:** Anti-corrosion primer for armor
  - **aplicaTec Reparación (Fluido/Gruoso) R4 PCC:** Structural repair mortars
  - **CapaPROOF Imper Flex Premium:** Flexible waterproofing mortar for surface protection of concrete
  - **aplicaCer:** Cementitious adhesive for gluing ceramic tiles or natural stone (minimum C1 according to UNE EN 12004)

## TECHNICAL CHARACTERISTICS

| Characteristic                                | Values                                       | Método de ensayo  |
|---|--|-------------------|
| Color   | Gray Mortar                                  | -                 |
| Fresh density (Kg/l)                          | 1,5 Approx                                   | -                 |
| Granulometry                                  | 0-0,3 mm                                     | -                 |
| Layer thickness                               | 1-2 mm                                       | -                 |
| Consumption (dry mortar)*                     | Approx. 1 Kg/m <sup>2</sup> and mm thickness | -                 |
| Mix life time                                 | 30-40 min                                    | -                 |
| Water impermeability test                     | Does not penetrate water                     | UNE-EN 14891      |
| Crack elongation capacity                     | >1 mm  | UNE-EN 14891:2008 |
| Initial adherence                             | >0,5 N/mm <sup>2</sup>                       | UNE-EN 14891:2008 |
| Adhesion after immersion in water             | >0,5 N/mm <sup>2</sup>                       | UNE-EN 14891:2008 |
| Adhesion after heat                           | >0,5 N/mm <sup>2</sup>                       | UNE-EN 14891:2008 |
| Adhesion after freeze-thaw cycles             | >0,5 N/mm <sup>2</sup>                       | UNE-EN 14891:2008 |
| Adhesion after immersion in water with lime   | >0,5 N/mm <sup>2</sup>                       | UNE-EN 14891:2008 |
| Adhesion after immersion in chlorinated water | >0,5 N/mm <sup>2</sup>                       | UNE-EN 14891:2008 |
| Crack elongation capacity, A.8.2              | ≥0,75 mm                                     | UNE-EN 14891      |
| Crack elongation capacity, A.8.3 at -20 °C    | ≥0,75 mm                                     | UNE-EN 14891      |

\* Consumption may vary depending on the roughness of the support and its flatness

# CapaPROOF Imper Flex Premium

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Material in accordance with the requirements established in Royal Decree 140/2003  
(Migration of substances from cement-based materials UNE-EN 14944-3:2008)

| PARAMETER                                  | NORMA                | PARAMETER                               | NORMA  |
|--|----------------------|---|--------|
| Color (mg/Pt/Co)                           | ≤ 15                 | Arsenic (µg/l)                          | ≤ 10   |
| Flavor: dilution rate                      | ≤ 3                  | Boron (mg/l)                            | ≤ 1    |
| Odour: dilution rate                       | ≤ 3                  | Cadmium (µg/l)                          | ≤ 5    |
| Conductivity (µS/cm)                       | ≤ 2500               | Copper (mg/l)                           | ≤ 2    |
| Reaction at 20ppm color                    | sin cambios anómalos | Chrome (mg/l)                           | ≤ 50   |
| Turbidity (UNF)                            | ≤ 5                  | Iron (µg/l)                             | ≤ 200  |
| pH (upH)                                   | ≥ 6,5 ≤ 9,5          | Manganese (µg/l)                        | ≤ 50   |
| Oxidability (mg O2 /l)                     | ≤ 5                  | Mercury (µg/l)                          | ≤ 1    |
| Total organic carbon (TOC) (mg/l)          | sin cambios          | Nickel (µg/l)                           | ≤ 20   |
| Residual combined chlorine(mg/l)           | ≤ 2                  | Lead (µg/l)                             | ≤ 25   |
| Residual free chlorine (mg/l)              | ≤ 1                  | Selenium (µg/l)                         | ≤ 10   |
| Chlorides (mg/l)                           | ≤ 250                | Benzene (µg/l)                          | ≤ 1    |
| Ammonium (mg/l)                            | ≤ 0,5                | Benzo-a-pyrene (µg/l)                   | ≤ 0,01 |
| Cyanides (µg/l)                            | ≤ 50                 | Polycyclic aromatic hydrocarbons (µg/l) | ≤ 0,1  |
| Sulfates (mg/l)                            | ≤ 250                | Trihalomethanes (µg/l)                  | ≤ 100  |
| Fluorides(mg/l)                            | ≤ 1,5                | Aldrin (µg/l)                           | ≤ 0,03 |
| Nitrates (mg/l)                            | ≤ 50                 | Dieldrin (µg/l)                         | ≤ 0,03 |
| Nitrites (mg/l)                            | ≤ 0,5                | Heptachlor (µg/l)                       | ≤ 0,03 |
| Sodium (mg/l)                              | ≤ 200                | Heptachlore epoxide (µg/l)              | ≤ 0,03 |
| 1,2-Dichloroethane (µg/l)                  | ≤ 3                  | Total pesticides (µg/l)                 | ≤ 0,5  |
| Trichloroethane + Tetrachloroethane (µg/l) | ≤ 10                 | Acrylamide 1st migration (µg/l)         | ≤ 0,1  |
| Aluminum (µg/l)                            | ≤ 200                | Epichlorohydrin (µg/l)                  | ≤ 0,1  |
| Antimony (µg/l)                            | ≤ 5                  |   |        |

## NOTE

Recommendations for use are based on our knowledge and experience. The technical data have been obtained under normal laboratory conditions, and may vary depending on the installation conditions. Since the application conditions are not controllable by us, the information on this sheet does not imply responsibility of the company.