

# ECOCORK RENDER

LIGHTWEIGHT SPRAYED CORK RENDER

## 1. DESCRIPTION

*ECOCORK RENDER* is a lightweight mortar formulated from hydraulic binders incorporating cork aggregates, limestone and siliceous aggregates and additions.

With the use of cork in the formulation, *ECOCORK RENDER* is in a new level of sustainable construction products with an ecological aspect to it. In addition, this mortar contributes to the improvement of thermal and acoustic insulation of the construction elements where it is applied.

*ECOCORK RENDER* is a product specially designed for manual application or spraying indoors and outdoors. Its high performance and ease of application is suitable for the execution of large areas.

## 2. FIELD OF USE

*ECOCORK RENDER* is suitable for the execution of lightweight renders on interior and exterior surfaces of walls and ceilings, with the intention of increasing thermal and acoustic performance of walls. This render is a constituent of a double layer acoustic and thermal coating solution, corresponding to the filling layer.

*ECOCORK RENDER* can be applied directly on substrates in ceramic brick, cement block and concrete. However, special adhesion precautions should be taken on some of these substrates.

## 3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Colour	Grey	-
Granulometry	< 1,2 mm	EN 1015-1
Paste product	Value	Standard
Mixing water	54,0 % ± 1,0 %	-
Density	800 ± 50 kg/m <sup>3</sup>	EN 1015-6
Theoretical consumption	6,5 kg/m <sup>2</sup> /cm	-
Hardened product	Value	Standard
Compressive strength	Class CS II	EN 1015-11
Flexural strength (28 days)	1,6 N/mm <sup>2</sup>	EN 1015-11
Adherence to brick and block / Mode of fracture	≥ 0,3 MPa/A e C	EN 1015-12

# ECOCORK RENDER

LIGHTWEIGHT SPRAYED CORK RENDER

Density	700 ± 150 kg/m <sup>3</sup>	EN 1015-10
Modulus of Elasticity	1200 N/mm <sup>2</sup>	BS 1881-5
Capillarity	Class W2	EN 1015-18
Permeability to water vapour	≤ 15 μ	EN 1015-19
Reaction to fire	Class A2-s1 d0	EN 12667
Thermal Conductivity	Class T2	EN 12667

## 4. APPLICATION

### a) Substrate preparation

The substrates must be clean and free of dust, dismantling fluids, efflorescences and any other materials that may affect adhesion.

In hot or dry weather the substrate must be dampened, then application should begin when it dries.

On edges, particularly on building corners, lintels and sills, it is advisable to apply suitable profiles (PVC with fiberglass mesh with anti-alkaline treatment).

For manual application, roughcast or primer coat is recommended (see *REDUR CHAPISCO*).

On concrete surfaces, especially on ceilings and areas of significant development or stress, the substrate must be prepared with an adhesion primer (see *REDUR AD 90*).

For applications on ancient substrates or in building rehabilitation works we suggest prior consultation with our Technical Services.

### b) Preparation of mixture

*ECOCORK RENDER* must be mixed in projection equipment with pre-mixing of the product.

Using machinery without automatic water dosing, the *ECOCORK RENDER* must be mixed in the proportion of 6.0 to 6.5 litres of water per 12 kg bag.

In machines with automatic water dosing, regulate the minimum water flow to allow good workability.

### c) Application

In order to minimize work joints, complete areas should be executed whenever possible. Any resumption in working joints must be carried out within a maximum period of 12 hours.

In the application of *ECOCORK RENDER* the plaster must be reinforced in traction areas, especially in the transition between different substrate materials as in blinds cases, corners, in the vertices of spans and in fine thickness areas, with fiberglass mesh, with anti-alkaline treatment with the appropriate section and mesh opening.

# ECOCORK RENDER

LIGHTWEIGHT SPRAYED CORK RENDER

The reinforcement mesh (*REDUR REDE 115*) must be properly embedded in the thickness of the plaster, the application of which is to be carried out as follows:

- Apply 50% to 60% of the ECOCORK RENDER layer on the substrate;
- Properly embed the REDUR REDE 115 reinforcement mesh in the applied layer;
- Apply the necessary amount of mortar until the appropriate thickness is achieved, ensuring that the bottom layer remains workable.

Render expansion/retraction joints or recesses should be executed when in large areas. Take extra care on façades oriented to the south-west quadrant, with spacing suitable for normal rendering operation.

After applying the mortar, by spraying onto the substrate, the render must be properly tightened with a suitable ruler.

After applying the mortar, the final surface of the ECOCORK RENDER must be trowelled to receive the final finishing coating.

In case of direct contact with the soil, waterproofing solutions must be provided in the areas where the coating is to start in order to prevent accelerated aging.

## d) Thicknesses

In outdoor applications, a minimum thickness of 1 cm should be ensured in order to guarantee normal operation of the render. In particular cases, especially in areas of significant humidity and exposure to winds, a minimum thickness of 1.5 cm is advisable.

Never apply layers less than 1 cm thick.

In order to avoid cracking due to mortar slipping, layers with thicknesses greater than 2 cm should not be applied without reinforcement mesh. The following procedures must be followed where new layers are required:

- The different layers must have thicknesses identical to each other;
- The second layer must be applied after the first one has set and is still recent;
- In thicknesses greater than 3 cm, the layers should be strengthened with fiberglass reinforcement mesh with anti-alkaline treatment.

## e) Restrictions

*ECOCORK RENDER* should not be applied at ambient and substrate temperatures below 5 °C and above 30 °C. Its curing time is 28 days.

In hot and/or dry weather or in the case of substrates exposed to the direct action of the sunlight, the substrate must be dampened, then application should begin when it dries.

Under these conditions, the surfaces should be dampened daily for one week in order to keep the plasters slightly dampened.

Applying the render with strong winds can cause it to crack. In this case, protect the façades in order to minimize the wind action.

# ECOCORK RENDER

LIGHTWEIGHT SPRAYED CORK RENDER

**SECIL TEK**

DÁ FORMA ÀS IDEIAS

## f) Complementary Advices

The mixing water must be free of any impurities (clays, organic matter, etc.) and drinking water should be preferably used.

No mortar that has started its open time should be applied. Do not soften mortars by adding water after preparation.

Do not add any other products to the mortar. *ECOCORK RENDER* should be applied as it is shown in its original packaging.

## 5. PACKAGING AND VALIDITY

### Packaging

12 kg paper bags in plasticized pallets of 54 bags.

### Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.

## 6. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and abundantly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.

# ECOCORK RENDER

LIGHTWEIGHT SPRAYED CORK RENDER

## ECOCORK RENDER



EN 998-1

Lightweight render mortar (LW) for interior and exterior coatings

Declaration of performance DOP.12003

*Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.*

Revision of March 2019  
FT 12003.01 EN