

1. DESCRIPTION

REDUR MÉDIO is a dry mortar made from hydraulic binders, selected aggregates, admixtures and water repellent materials. It is a grey water-repellent plaster, suitable for sprayed application and can also be applied by hand. This plaster can be used indoors and outdoors.

2. FIELD OF USE

REDUR MÉDIO, due to its medium granulometry, is particularly suitable for single layer plastering, making it possible to obtain the traditional types of finish, namely sanded, trowelled and tinned.

It can also be used as a mount for certain types of cladding applied using gluing or mechanical fixing systems, in which case we recommend that you familiarise yourself with all the technical information on the materials selected and consult our Technical Services to check the compatibility of the solution.

REDUR MÉDIO replaces traditional renders with the following added advantages:

- Control of shrinkage cracking in hydraulic mortars;
- Application in a single layer system, eliminating the need for plastering or spraying (except on concrete substrates);
- Efficient waterproofing of wall panels;
- Reduced absorption of water by capillarity.

REDUR MÉDIO can be applied directly to absorbent substrates, such as masonry, thermal blocks, etc.

3. PRODUCT FEATURES

Powder product	Amount
Appearance	Grey powder
Granulometry	<1.2 mm
Paste product	Figure
Mixing water	16.5 % ± 1.0 %
Density	± 1600 kg/m ³
Hardened product	Figure
Compressive strength	CS Class II
Adherence to brick / Fracture mode	≥ 0.2 MPa / A and B
Capillarity	Class W _c 1
Permeability to water vapour	μ ≤ 35

Reaction to fire	Class A1
Thermal conductivity	0.45 W.(m/K) (P=50%)

4. APPLICATION**a) Preparation of substrates**

The substrates must be free of dust, releasing agents, crumbling or unstable materials, efflorescence, as well as any type of material that affects the normal conditions of adherence.

Before applying **REDUR MÉDIO**, it may be necessary to moisten the substrate to prevent it from absorbing water from the mortar, thus jeopardising its final characteristics. On edges, particularly on building corners and jambs, it is advisable to apply suitable profiles.

It is recommended to apply one of the following adherence primers: **REDUR CHAPISCO**, **REDUR FIX**, **REDUR RED FIX** or **REDUR AD 90**, on smooth or low absorbent substrates (e.g. smooth concrete and concrete ceilings).

For applications on old substrates or in building restoration operations, we suggest consulting our Technical Services in advance.

b) Preparation of the mixture

REDUR MÉDIO should be prepared using a continuous-mixing spray machine, thinning the mortar with the minimum amount of water to ensure adequate workability.

Manual application can be done using a concrete mixer, mixing the powdered product with around 4.0 to 4.5 litres of water per 25 kg bag, until the correct consistency is obtained. For small quantities, you can hand mix or use a low-speed electric mixer until the right consistency is obtained, using the same mixing water amounts.

The theoretical consumption of **REDUR MÉDIO** powder is 13 kg/m² per cm of thickness.

c) Application

It is applied in a single coat, up to 20 mm thick, starting from the bottom up. The surface must then be smoothed with an H-shaped ruler or a spatula until it reaches a suitable finish.

When the desired thickness exceeds 20 mm, the product should be applied in successive layers, respecting a minimum interval of 24 hours between each one and ensuring that the previous layer has a rough texture for better adherence. The purpose of applying successive layers is to prevent the appearance of microcracking due to plaster deterioration as a result of excessive weight.

For a textured finish, a sponge trowel can be used directly on the material while it is still fresh.

However, to increase the durability of the intervention, it is recommended to apply a finishing coat before starting the decorative process. In order to obtain a uniform and resistant surface, suitable for a final finish, it is advisable to use a wooden or plastic trowel.

After a recommended drying period of 28 days **REDUR MÉDIO** must be painted promptly.

d) Thickness

When applying **REDUR MÉDIO**, it is essential to guarantee a minimum thickness of 1 cm to ensure the proper performance of the plaster, and never more than 2 cm per layer. Ideally, it should be applied in two

layers, each no more than 1 cm thick.

In special cases, especially in areas with high humidity and exposure to wind, it is advisable to make the total thickness of 1.5 cm.

Whenever it is necessary to create thicknesses greater than 2 cm, this can be achieved by applying successive layers in accordance with the following instructions:

Apply thicknesses greater than 1 cm and less than 2 cm;

- The different layers must be identical in thickness;
- The 2nd layer should be applied after the first setting has set (application interval of 12 to 24 hours depending on weather conditions);
- For thicknesses greater than 2 cm, the layers should be reinforced with fibreglass reinforcing mesh with anti-alkali treatment (**REDUR REDE 115**).

e) Restrictions

REDUR MÉDIO should not be applied at room and substrate temperatures below 5 °C and above 30 °C. Its curing time is 28 days.

In hot and/or dry weather, the substrate should be moistened beforehand and the application started when it is superficially dry.

Under these conditions, the surfaces should be wet daily for a week to keep the render permanently moist.

Application in the presence of strong winds can cause cracks in the render. In this case, protect the surfaces to minimise the effects of wind.

f) Complementary advice

- The water in the mix must be free of impurities (clay, organic material), preferably being of drinking quality.
- No mortar of any type should be applied that has started the process of setting. Do not soften the mortar;
- Do not add any other products to the mortar, and **REDUR MÉDIO**, should be applied as shown in the original packaging.

5. PACKAGING AND VALIDITY

Packaging

25kg paper bags on plastic pallets of 60 bags and in bulk.

Expiry

6 months, provided the original packaging conditions remain unchanged and in storage conditions protected from extreme temperatures and damp.

6. HYGIENE AND SAFETY

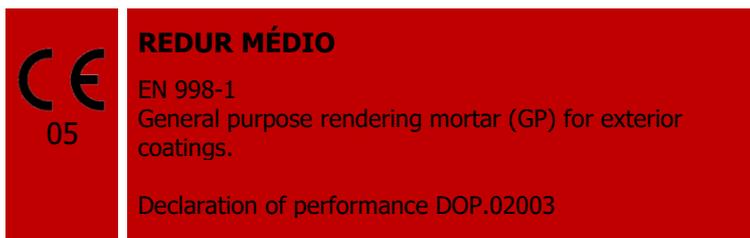
(DOES NOT PRECLUDE THE PRODUCT SAFETY DATA SHEET)

- Irritant to the eyes, respiratory system and skin;
- May cause sensitivity in contact with the skin;

REDUR MÉDIO

SINGLE-LAYER SPRAYED RENDER

- Do not inhale the dust;
- Avoid contact with the skin and eyes;
- In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice;
- Wear suitable protective clothing and gloves;
- Keep out of the reach of children.



Since the conditions of application of our products are out of our control, we cannot be held responsible for their incorrect use. It is the customer's responsibility to verify the suitability of the product for its intended purpose. In any case our liability is limited to the value of the goods provided by us. The information contained in this factsheet may be changed without notice. In case of doubt, and should you require further clarification, we recommend you contact our technical services.

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