

REDUR IRP EXTERIOR

WATER-REPELLENT RENDER WITH SANDED FINISH FOR SPRAYED APPLICATION

1. DESCRIPTION

REDUR IRP EXTERIOR is a dry, industrial mortar, formulated from hydraulic binders, selected aggregates, adjuvants and water repellents. It is a grey water-repellent render suitable for sprayed application being appropriate to achieve a sanded or smooth finish in interior and exterior environments, for subsequent painting.

2. FIELD OF USE

REDUR IRP EXTERIOR is recommended for the application of finishing renders in outdoor wall and ceiling surfaces. Due to its granulometry, it makes it possible to obtain fine sanded finishes or to apply smooth products.

REDUR IRP EXTERIOR replaces traditional renders with the following advantages:

- Cracking control by shrinking of hydraulic mortars;
- Application in single layer systems;
- Reduced water absorption by capillarity.

REDUR IRP EXTERIOR may be applied directly over concrete, brick, block masonry or other substrates.

3. PRODUCT CHARACTERISTICS

Characteristics	Value	Standard
Colour	Grey	-
Granulometry	< 1,2 mm	EN 1015-1
Paste product	Value	Standard
Mixing water	18,0 % ± 1,0 %	EN 1016-3
Theoretical consumption	14,50 kg/m ² /cm	-
Hardened Product	Value	Standard
Density	1600 ± 150 kg/m ³	EN 1015-10

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Compressive strength	Class CS III	EN 1015-11
Adhesion to brick / Mode of fracture	$\geq 0,2$ MPa / B	EN 1015-12
Capillarity	W1	EN 1015-18
Permeability to water vapour	$\leq \mu 15$	EN 1015-19
Reaction to Fire	Class A1	EN 998-1
Thermal conductivity	0,61 W.(m/K) (P=50%)	NP EN 1745

4. APPLICATION

a) Substrate preparation

Substrates should be free of dust, release agents, loose or unstable materials, efflorescence, as well as any other type of material that may affect the normal conditions of adhesion.

In hot or dry weather, the substrate should be slightly dampened with water and its application should start when it is superficially dry.

On edges, particularly on building corners and doorways, the application of suitable profiles is advisable.

Always use **REDUR FIX** or **REDUR AD 90** primers on smooth concrete walls and concrete ceilings.

In applications on old substrates or in building rehabilitation operations, we suggest prior consultation of our Technical Services.

b) Mixture preparation

REDUR IRP EXTERIOR should be mixed in a spraying equipment with pre-mixing of the product.

In machines without automatic water dosing, **REDUR IRP EXTERIOR** should be mixed in the proportion of 5,0 to 5,5 litres per 30 kg bag.

In machines with automatic water dosing, adjust the minimum flow rate to ensure good workability.

Use water free of impurities and do not add any products to the mortar.

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c) Application

REDUR IRP EXTERIOR should be applied by mechanical spraying, ensuring to carry out complete panels whenever possible. If it is necessary to carry out joints, the work should be resumed within a maximum of 12 hours.

Renderers should be reinforced in areas of transition between different substrate materials, blinds' spaces, corners, angles and slender panels, with fiberglass mesh, with anti-alkaline treatment, with the appropriate section and mesh. The reinforcing meshes should be suitably embedded in the thickness of the render, and so their application should be as follows:

- Apply at least 60 to 70% of **REDUR IRP EXTERIOR** layer on the substrate;
- Suitably embed the reinforcement mesh in the layer applied;
- Apply the necessary mortar until the appropriate thickness is obtained, ensuring that the lower layer remains workable.

Render expansion joints or fins should be provided for, especially on façades facing the south-west quadrant, with a spacing suitable for the normal performance of the render.

In case of direct contact with the ground, waterproofing solutions should be provided for in the coating starting areas so as to avoid its quick accelerated ageing.

The final surface of **REDUR IRP EXTERIOR** should be trowelled for further application of tinned products. The subsequent execution of the sponging technique allows the fine sanded finish to be obtained.

After a recommended drying period of 28 days, **REDUR IRP EXTERIOR** should quickly undergo an appropriate paint system.

d) Thicknesses

When applying **REDUR IRP EXTERIOR** a minimum total thickness of 1 cm and a maximum of 2 cm should be ensured to guarantee the normal performance of the render, ideally to be applied in 2 layers of 1 cm maximum thickness per layer:

- Minimum thickness of 1 cm;
- Maximum thickness of 2 cm.

In order to avoid cracking due to the slipping of the mortar, layers thicker than 2 cm should not be applied.

In particular cases, especially in areas of significant humidity and wind exposure, it is advisable to apply a total thickness of 1.5 cm. On concrete surfaces, a maximum thickness of 0.8 cm should be ensured.

Whenever thicknesses greater than 2 cm are required, successive layers should be applied to do so, and the following instructions should be observed:

- Apply thicknesses greater than 1 cm and less than 2 cm;
- The different layers should have identical thicknesses;
- The 2nd layer should be applied after the first one has set (application interval of 12 to 24 hours depending on the weather conditions);
- In thicknesses greater than 2 cm, the layers should be reinforced with fiberglass reinforcement mesh, with anti-alkaline treatment (**REDUR REDE 115**).

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e) Restrictions

REDUR IRP EXTERIOR should not be applied when the ambient temperature and/or the substrate is below 5°C or above 30°C. It has a curing time of 28 days.

In hot and/or dry weather, or in the case of substrates exposed to the direct action of sunlight, the substrate should be previously moistened, and application should start when it is superficially dry.

In such conditions, worked surfaces should be watered daily, for a week, so as to keep the render permanently damp.

Application in strong winds could cause the render to crack. In such case, walls should be protected so as to minimize the effects of the wind.

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. **REDUR IRP EXTERIOR** should be applied as it is shown in its original packaging.

5. PACKAGING AND VALIDITY

Packaging

30 kg paper bags in plasticized pallets of 48 bags.

Validity

6 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.

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**REDUR IRP EXTERIOR**

EN 998-1
General-purpose (GP) mortar for indoor and outdoor coatings.

Declaration of performance DOP.02001

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.

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