

# R-stone

Decorative finishing for interiors and exteriors with stone and ancient patina effect.

## DESCRIPTION OF THE PRODUCT

**R-stone** is a decorative finish with stone and ancient patina effect, available as **Rosso, Verde, Blu, Perla, Metal Silver and Metal Gold**. It is formulated with selected metallic pigments, unsaponifiable resins and rheological modifiers to guarantee an excellent workability.

R-stone veils the original color of the substrate, creating a pleasant chromatic effect.

## APPLICATIONS

Applicable on:

- New and old base hydraulic binder-based plaster.
- Concrete surfaces.
- Old paints and organic or mineral coatings, dry, compact, absorbent and cohesive.
- Various absorbent mineral conglomerates.
- ETICS surfaces (external thermal insulating composite systems)

**Not suitable for dehumidifying plasters.**

The surfaces must be suitably prepared following the methods in the '**SUBSTRATE PREPARATION**' paragraph.

## IDENTIFICATION FEATURES

Nature of the binder: acrylic copolymer with siloxane alteration in water emulsion.

Bulk density:

**R-stone Rosso:** 1,17 +/- 0,05 g/ml

**R-stone Verde:** 1,17 +/- 0,05 g/ml

**R-stone Blu:** 1,13 +/- 0,05 g/ml

**R-stone Perla:** 1,15 +/- 0,05 g/ml

**R-stone Metal Silver:** 1,10 +/- 0,05 g/ml

**R-stone Metal Gold:** 1,10 +/- 0,05 g/ml

Drying (at 25°C and 65% R.H.): to the touch in 30 min.; can be over-coated after 8 hours.

## PERFORMANCE CHARACTERISTICS

Liquid water permeability EN 1062-3: low,  $w < 0.1 \text{ kg/m}^2\text{h}^{0.5}$  - values detected as blank level

Water vapor permeability ISO 7783-2: high,  $S_d < 0.14 \text{ m}$  - values detected as blank level

Protective for facades on the basis of the Kuenzel theory DIN 18550:  $W < 0.5 \text{ kg/m}^2\text{h}^{0.5}$  and  $S_d < 2 \text{ meters}$

Resistant to mold and algae in compliance with EN 15457 and EN 15458.

The data measured refer to substrates prepared as in the "**ETICS Surfaces**" point.

## DILUTION

**R-stone:** ready for use, max. dilution 20% in volume with water.

## WARNINGS

Mix the material thoroughly before tinting and before application. Do not apply on fresh/new and essentially alkaline substrates; wait for a maturation period with general duration of 4 weeks. Application on concrete surfaces has a decorative function.

## ATTREZZI

**R-stone:** sponge trowel or stainless steel spatula.

## PREPARATION OF THE SUBSTRATE AND APPLICATION

(Reference environmental conditions  $T=25^\circ\text{C}$ ,  $\text{RH}=60\%$ )

### Plaster surfaces:

The surface must be clean and dry, cohesive and compact and have no dust and mineral salt spots.

If necessary, restore or consolidate using specific products.

Treat the surface with appropriate products in the presence of mould.

Remove any salt bloom and any flaking old paint by brushing or washing. Completely eliminate any raised layers of paint. Remove dust, smog and other deposits by brushing.

The cracks must be suitably widened and filled with plaster or similar products.

Level out any substrate irregularities. Holes, cracks, crevices and dents can be treated with appropriate levelling agents, depending on the type of substrate.

Make sure that the substrate is completely dry and apply a layer of **Acricolor** (water-based acrylic pigmented primer) diluted, or alternatively, apply a layer of diluted **Decofix** (micronized wall primer) and wait for the primer to dry.

For a slightly textured finish, apply a first layer of **R-stone Fondo** and smooth.

After at least 8 hours apply a second layer of **R-stone Fondo**, working the surface depending on the aesthetic effect desired.

Apply a layer of **R-stone** onto a dry surface, removing any excess material.

Pass over the surface again immediately to eliminate any imperfections or excessive deposits of material.

Wait for the substrate to dry completely and apply a second layer of **R-stone**, removing any excess material.

Work the surface that is still damp depending on the effect desired.

Drying time: approx. 24 hours depending on the type of substrate, its absorption and on the environmental conditions.

### Concrete surfaces:

The surface must be clean and dry, cohesive and compact and have no dust and mineral salt spots.

If necessary, restore or consolidate using specific products.

Treat the surface with appropriate products in the presence of mould.

Remove any salt bloom and any flaking old paint by brushing or washing. Completely eliminate any raised layers of paint. Remove dust, smog and other deposits by brushing.

Remove the cement structural parts that are poorly adherent.

The reinforcement metal round bars that are visible on the surface must be brushed thoroughly and treated with passivating grout.

Restore the missing parts with suitable anti-contraction, thixotropic, fibre-reinforced mortar.

Perform final smoothing with anti-contraction, anti-carbonation levelling agent.

Make sure that the substrate is thoroughly dry and apply a layer of diluted **Decofix** (micronized wall primer) and wait for the primer to dry.

To produce a slightly textured finish, apply a first layer of **R-stone Fondo** and smooth.

After 4 hours apply a second layer of **R-stone Fondo**, working the surface depending on the aesthetic effect desired.

After 8 hours, apply a layer of **R-stone** onto a dry surface, removing any excess material.

Pass over the surface again immediately to eliminate any imperfections or excessive deposits of material.

Wait for the substrate to dry completely, approx. 4 hours, and apply a second layer of **R-stone**, removing any excess material.

Work the surface that is still damp depending on the effect desired.

Drying time: approx. 24 hours depending on the type of substrate, its absorption and on the environmental conditions.

### **ETICS surfaces (external thermal insulating composite systems):**

**To limit excessive mechanical stress caused by overheating of the surface due to solar irradiation, it is advised to use shades of colour with reflectance index (Y) over 20. The selection of shades present in the colour chart is suitable for application on ETICS systems.**

#### ***New surfaces:***

Make sure that the substrate has a curing time that meets the manufacturer's specifications.

Make sure that the substrate is completely dry and apply a layer of **Acricolor** (water-based acrylic pigmented primer) diluted, or, alternatively, apply a layer of diluted **Decofix** (micronized wall primer) and wait until it is dry.

Use a stainless steel spatula to spread a layer of plaster specific for ETICS, working the surface depending on the aesthetic effect desired.

After 8 hours, apply a layer of **R-stone** onto a dry surface, removing any excess material.

Pass again immediately to eliminate any imperfections or excessive deposits of material.

Wait for the substrate to dry completely, approx. 4 hours, and apply a second layer of **R-stone**, removing any excess material.

Work the surface that is still damp depending on the effect desired.

Drying time: approx. 24 hours depending on the type of substrate, its absorption and on the environmental conditions.

#### ***Renewal of existing surfaces:***

**Before covering an ETICS surface, it is good practice to check:**

- The adhesion of the insulating panels to the substrate.

- The presence of inconsistent parts which are coming away or damaged; these must be removed.
- The surface is smooth and not crumbling.
- There are no cracks on the surface between the various insulating panels.
- There is no algae or mold present, proceed with sanitization using specific products, if necessary.
- The surface is dry and free from condensate.

Apply a layer of diluted **Decofix** (micronized wall primer).

Proceed with reinforced levelling using cement-based adhesive suitable for external insulation finishing system:

A smoothing agent is recommended with:

- maximum dimension of the aggregates: 0.75 mm
- adhesion to concrete/brickwork: > 0.25 MPa

Embed an alkali-resistant plaster mesh, weighing approx. 150 gr/m<sup>2</sup> between the two levelled layers and wait for curing; see the manufacturer's technical data sheet.

Proceed with the application of a first smooth layer of **R-stone Fondo**.

After 4 hours apply a second layer of **R-stone Fondo**, working the surface depending on the aesthetic effect desired.

Eliminate any accumulations of material to obtain a compact surface.

After 8 hours, apply a layer of **R-stone** onto a dry surface, removing any excess material.

Pass over the surface again immediately to eliminate any imperfections or excessive deposits of material.

Wait for the substrate to dry completely, approx. 4 hours, and apply a second layer of **R-stone**, removing any excess material.

Work the surface that is still damp depending on the effect desired.

Drying time: approx. 24 hours depending on the type of substrate, its absorption and on the environmental conditions.

**(The dilutions of the isolating material and the amount to apply depend on the absorption of the substrate and are calculated**

**with preliminary tests on the specific substrate. See the relative technical data sheet).**

**The protection of the anti-mold and anti-algae finishing is of a sacrificial nature: the effectiveness and the duration over time are strongly conditioned by the severity of climatic exposure, the type of construction and the choice of application system.**

### **PRECAUTIONS**

The material must be protected from freezing and thermal shocks throughout the entire application process. Do not apply when air, substrate and product temperatures are below +5°C or above +35°C, or in direct sunlight, or on hot surfaces (even if already in the shade). Environment humidity must be < 75%; the humidity of the substrate must be < 10%.

It is recommended to finish the job using the same production batch. If different batches are used, we advise mixing the different batches together in order to avoid slight colour differences.

For correct use of the materials mentioned, their dilution and application, read the relative technical data sheet carefully.

Correct use of individual protection equipment (PPE) is recommended during all preparation of the substrate, products and application of the same.

#### **CLEANING EQUIPMENT**

Clean with water immediately after use.

#### **COVERAGE**

**R-stone:** 8-10 m<sup>2</sup>/l in the two layers, according to the finish of the substrate and its absorption. It is good practice to carry out a practical test on the substrate to calculate real consumption.

#### **COLOURS**

**R-stone** and **R-stone** color chart.

#### **PACKAGING**

1 and 2.5 l packs

#### **STORAGE CONDITIONS AND SHELF LIFE**

The product must be used preferably within 2 years from the production date if kept in its original intact container and in conditions with suitable temperature.

#### **SAFETY INDICATIONS**

Directive 2004/42/EC:

R-stone (decorative effect paint)

EU limit value for R-stone (cat A/l):200 g/l (2010)

R-stone contains max. 200 g/l VOC.

Harmful to aquatic organisms, may cause long-term negative effects in the aquatic environment / Keep out of the reach of children / Do not dispose of residues in drains / Wear suitable protective clothing and gloves / If swallowed, seek medical advice immediately and show the container or label.

The product must be transported, used and stored in accordance with current legislation concerning health and safety; let residues dry out completely and treat them as special waste.

For further information, refer to the MSDS.

N.B. - COLORIFICIO NOVACOLOR guarantees that the information herein

is provided to the best of its experience and its technical and scientific knowledge; however, it cannot be held responsible for the results obtained using these products since the conditions of application are beyond its control. We recommend that you always check the suitability of the product to each specific use. This current edition supersedes all previous information sheets.