

## RC AMOSTONE

### MINERAL RESTAURATION MORTAR BASED ON HYDRAULIC LIME FOR NATURAL STONE

#### Natural stone reparation and imitation



#### ADVANTAGES OF RC AMOSTONE

- ✓ Good imitation of the existing natural stone
- ✓ Shrink-free curing
- ✓ Frost- and UV-resistant
- ✓ Colorfast
- ✓ Easy processing, even in large thicknesses (1-10 cm)
- ✓ Very vapor permeable

#### Description

RC AMOSTONE is a ready-to-use mineral repair mortar for the restoration of natural stone, architectural ornaments and jointing. The mortar consists of natural hydraulic lime, specific hydraulic, mineral and organic additives.

#### Properties

RC AMOSTONE is suitable for the restoration of natural stone, bricks and terracotta. Fully cured repairs with RC AMOSTONE can be processed in the same way as the original rock. This allows historic facades and monuments to be restored in the most true-to-life way.

RC AMOSTONE offers the following benefits:

- Good imitation of the existing natural stone, both in color and texture;
- Shrink-free curing;
- Frost- and UV-resistant;
- Ages as natural stone;
- Colorfast;
- Easy processing, even in large thicknesses (1 to 10 cm);
- Low modulus of elasticity;
- Very vapor permeable.

#### Substrate

Treat rising damp (for example with RC DRYGEL 80). Reinforce surfaces with poor cohesion with RC STONE REINFORCER. The parts to be treated may be repaired at the earliest after 14 days of drying time. Treat surfaces affected with moss with RC KILGREEN. Anything loose parts should be removed; the adhesion surfaces of the stone to be repaired must be hard, clean and dust-free.

Deepen the damage to 0,5 cm below the surface. The parts to be repaired must be cured in a dovetail shape (square or rectangular). Cut the edges in a dovetail shape to allow the repair mortar to adhere well to its mating surfaces. For repairs more than 3 cm thickness, mechanical anchors with stainless steel screws, which may be mutually connected by brass wire, must be placed.

#### Excluded:

- Masonry and plasters based on plaster, paint or organic decorative plaster.

#### Material:

- Manual application: trowel, knife, planer, electric mixer.

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## Application instructions

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First moisten the surface with water. To ensure good adhesion: first apply a thin layer and press well; layers of 2 to 3 cm can then be applied, wet-in-wet. It is sometimes necessary to obtain good adhesion by applying a primer with RC ACRYPLAST (dilution 1 part RC ACRYPLAST to 2 parts water). The RC AMOSTONE must be applied on top of that still wet primer (do not allow to dry).

➤ Preparing the mortar

First, add the correct amount of water (4 liters for a 20 kg bag) to the mixing container, then add the powder while stirring mechanically. Mix the mortar well for 3 to 5 minutes with an electric mixer at low speed, 300 rpm. Mixing and adding the water must always be done in the same way.

➤ Applying the mortar

Without supporting formwork

Apply the first layer and press well on the adhesive layer, then continue in successive layers of 2 to 3 cm, wet-in-wet. For thicknesses of more than 3 cm, mechanically apply a reinforcement using wires, anchors, stainless steel fasteners, etc. The reinforcement should be provided with a first layer of mortar about 1 cm thick, and then of maximum 4 cm thickness. In cases where more than 4 cm is required, wait 24 hours before applying the second coat.

Always wet the areas to be treated. Press the mortar well, and if necessary, press again after a few hours, to avoid any shrinkage marks (caused by absorption by the substrate). However, most shapes and finishes can be done within 24 hours. Sculptures, using the appropriate tools, should wait for after a week or more, depending on weather conditions. The unique properties of the product make it possible to carry out the finishing in the shortest possible time and guarantee an excellent result.

With supporting formwork

Pour in one go on the adhesive layer.

➤ Finish

The product can be processed before curing and reworked after curing with traditional stonemason tools.

➤ Joining and rejoining sculptures

Press the joints well before finishing.

➤ Tip for protection and storage

If necessary, provide waterproofing with, for example, RC HYDROCREAM 3 or RC HYDROCREAM 4: at least 14 days after application. Replace the hydrofuge with the RC 809 AG (Anti-Graffiti) on heavily damaged surfaces.

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## Consumption

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1,6 to 1,7 kg/m<sup>2</sup>/mm thickness.

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## Standard types

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A 1	CHAUVIGNY (fine grain)	A 17	GOBERTANGE dark
A 2	MASSANGIS	A 19	GOBERTANGE
A 4	CHAUVIGNY (coarse grain)	A 21	MERGEL dark
A 8	BALEGEM Ledesteen	A 22	EUVILLE
A 9	BALEGEM yellow	A 23	EUVILLE dark
A 12	EUVILLE light	A 24	SAVONNIERE light
A 14	SAVONNIERE beige	A 25	SAVONNIERE dark
A 16	BLUESTONE dark	A 27	BLUESTONE light

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## Technical characteristics

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Density:	1,3 kg/dm <sup>3</sup>
Tested after 28 days (water addition 18.7%)	
Tensile strength:	2,38 N/mm <sup>2</sup>
Compressive strength:	7,25 N/mm <sup>2</sup>
Modulus of elasticity:	7690 MPa
Potlife:	30 minuten tot 1 uur na de toepassing
Vapor permeability:	0,75 g/m <sup>2</sup> .h.mmHg
Coefficient of capillarity:	2,06 g/cm <sup>2</sup> .√min
Shrinkage:	0,85 mm.m
Open porosity:	> 30%

All values stated here are averages calculated from results obtained in the laboratory. The modulus of elasticity of the mortar is an important part during curing and for later thermal and physical movement. The lower the value, the greater the degree of flexibility. A cement-lime-sand mixture of 1:1:6 has an modulus of elasticity of 16.200 at 28 days compared to the RC AMOSTONE only 7690. Sandstones fall in the range of 20-100 N/mm<sup>2</sup>. Our repair mortar is not suitable for step or tread repairs.

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## Security

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Always consult the most recent safety data sheet.

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## Remarks

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- Product intended for professionals who have mastered the techniques for restoring natural stone (preliminary testing recommended);
- Before carrying out the work, you must always first determine the nature of the substrate and detect any irregularities;
- Do not apply at temperatures lower than +5°C or higher than +30°C (at higher temperatures, specific measures must be taken);
- Do not apply on a frozen or wet surface, in rain or fog or in strong dry and warm wind;
- Protect the facade for the duration of the works;
- Wear suitable clothing, gloves and safety goggles.

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## Cleaning of equipment

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Clean material with water, immediately after use, before the mortar has hardened.

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## Storage / Shelf life

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Shelf life is 1 year after production.

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## Packaging

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20 kg bag (item no. 40802).

## Photos



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### **Legal Notes**

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