

## RC ASTIVO

### COLORED NATURAL LIME (NHL 3.5) FOR POINTING

#### Natural lime mortars & lime paint



#### ADVANTAGES OF RC ASTIVO

- ✓ More elastic than cement mortars
- ✓ Less susceptible to freezing
- ✓ Excellent vapour permeability
- ✓ Based on natural hydraulic lime NHL 3.5 from Saint-Astier

#### Description

RC ASTIVO is a hydraulic (NHL 3.5) colored lime for the preparation of a pointing mortar in accordance with ENV 459-1. Lime mortars for lime pointing are generally softer and more porous compared to mixes using cement therefore allowing moisture to evaporate from the joints more freely. This can help to lower moisture levels in the wall and reduce the build up of soluble salts in the stone face, therefore reducing potential damage or 'spalling' of the masonry. Lime pointing of traditional masonry using lime mortar based on lime putty or natural hydraulic lime (NHL) offers many advantages over cement based mortars.

#### Properties

- Elasticity/deformability

RC ASTIVO is much more elastic and deformable compared to a hybrid or cement mortar. This is an essential factor, as it minimizes shrinkage and tears and allows small movements to be absorbed.

- Permeability and insulation

RC ASTIVO gives the building an excellent vapor permeability, which prevents the formation of condensation moisture, mold and damp spots. Moreover, the insulation value improves, in other words healthier living.

- Mechanical strength

The mechanical characteristics are built up progressively: NHL 3.5 lime reacts with water and then hardens under the influence of the air (carbonation). Soil consolidations in the building are absorbed better. Due to the free lime that carbonizes over a long time, a mortar also has a self-healing property.

#### Preparation of masonry

Provide a healthy, clean and dust-free surface. Replace bad bricks. Any existing defective pointing must be raked out to a depth usually equal to twice the width of the joint, but not less than 20 mm. The back of the joint should be roughly square in profile. The use of a plugging chisel ensures that the stone or bricks aren't forced apart.

After brushing out any loose material the joints must be dampened, with enough time left for the stone or brick faces to dry to prevent smearing. The mortar should be as dry as it is practicable to point with. This allows maximum compaction, reduces shrinkage and reduces the tendency to smear on the face of the masonry.

#### Preparation of the mortar:

Mix 1 bag RC ASTIVO of 10 kg with 40 kg of Rhine sand. Depending on the moisture of the sand, add water until a good joint mortar is obtained. The mixing time with a concrete mixer is about 5 minutes. Mechanical mixing with a mixing machine is best at a low speed so that a solid mass can be obtained.

## Application instructions

Start at the top of a wall to avoid raking out over finished work. Use a small tool or pointing spatula and force the mortar in from a hawk. Joints deeper than 20 mm will need an initial dubbing out as shrinkage can occur otherwise.

When the lime pointing is "green hard" (firm enough to brush without smearing but still malleable enough to work), brush or tamp the joints with a churn brush to remove the patina of lime on the surface of the mortar. This enhances the appearance by exposing the coloured aggregate in the mortar.

It is recommended for protecting new lime pointing from direct sunlight, rain and wind, and from frost if essential work is carried out during the winter. Please note that the application of lime mortars should be avoided during the colder months for risk of frost damage.

## Consumption

7 to 15 kg of mixture/m<sup>2</sup>, depending on the width and depth of the joints.

## Technical characteristics

Binding agent:	100% natural, hydraulic lime NHL 3,5
Presence of cement:	None
Delivery form:	Powder
Density:	0,8 kg/dm <sup>3</sup>
Pigments:	Mineral pigments
Organic additives:	Less than 0,3%

## Test results according to EN-459 on RC ASTIVO

Ratio RC ASTIVO/sand	1:2	1:2,5	1:3
Start of hardening (hours)	5,3	6	6
Elasticity modulus in N/mm <sup>2</sup>			
28 days	9010	9000	8970
6 months	16250	13505	12450
24 months	17480	13785	13670
Compressive strength in N/mm <sup>2</sup> (Mpa)			
7 days	0,75	0,57	0,53
28 days	1,88	1,47	1,34
12 months	7,48	5,89	3,89
24 months	8,62	5,99	3,96
Water vapor permeability			
In g per m <sup>2</sup> per hour per mmHg	0,62	0,64	0,70

## Colors

RC ASTIVO is available in 11 standard colors (see our website). We can make any color on request. This does involve additional costs. So first contact us about the price to request a special color.

NOTE: the color may vary slightly due to the use of different types of fillers.



105 156 200 130 125 116 138 135 119 139

The colors in the image may differ from the actual colors of the product

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## Security

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Consult the most recent safety data sheet. Limes are caustic. Always wear eye protection and protective gloves and clothing and follow the safety instructions on the labels.

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## Remarks

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- Product for professionals.
- Protect the fresh mortar against water, wind, sun, drift water and fog, using a windscreen. Moisten the mortar again after curing.
- Do not apply on a frozen substrate or when there is a risk of frost. Minimum temperature for application: +5°C for light colors, +8°C for dark colors. Above 30°C special measures must be taken.

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## Cleaning of equipment

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With water immediately after use.

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## Storage / Shelf life

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- Keep only in the original container in a cool, well-ventilated place. Opened containers must be closed and stored upright to prevent leakage.
- 1 year after manufacturing in original, closed packaging.

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## Packaging

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10 kg bag (item no. 609011).

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## Photos

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### Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Reynchemie products, are given in good faith based on Reynchemie current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Reynchemie recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Reynchemie reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.