

Arcadia® Rinzafo

Salt-resistant dehumidifying mortar based on pozzolanic hydraulic lime.
CE-marked as interior and exterior mortar GP CS III (EN 998-1).



Mod. 51 Rev 64

Last update 22/04/2022



CHARACTERISTICS:

ARCADIA® RINZAFFO is a ready-to-use salt-resistant rendering mortar specifically designed for preservation and renovation of masonry subject to capillary rising damp. **ARCADIA® RINZAFFO** is composed of pozzolanic hydraulic lime and siliceous aggregates with a maximum grain size of 3 mm. Pozzolanic hydraulic lime is obtained by heating natural marl and limestone with natural pozzolan with a high content of reactive silica formed by deposited volcanic ash. **ARCADIA® RINZAFFO** has a low content of water-soluble salts. In contact with water, the lime reacts to form hydrates that are non-soluble, very stable and alkaline. **ARCADIA® RINZAFFO** is **CE-marked** according to EN 998-1 standard: "Renovation mortar. Mortar designed for internal/external render applied on damp masonry walls containing water-soluble salts", class CS III.

USE:

ARCADIA® RINZAFFO is used as a render and is applied together with **ARCADIA® RISANANTE**, **ARCADIA® INTONACO** to repair masonry subject to capillary rising damp, and is ideal for use in the reconstruction and renovation of buildings of historical and artistic interest, as well as in new modern buildings. In case of application on **ARCADIA® INTONACO**, **ARCADIA® RINZAFFO** can also be used as a skim coat, to improve the resistance to salts and efflorescence.

PREPARATION AND APPLICATION:

Remove damaged plasterwork up to 80 cm above the damaged area. In the demolition, reach the underlying masonry and removing any loose or flaking mortar in the joints between the bricks for a depth of at least 2 cm. Clean the surface and remove any loose part, grease, old paint or any other element that might compromise adhesion of the mortar by pressure washer. Let the masonry dry, then remove any residual efflorescence or soluble salt by dry-brush. Leave the brickwork to dry out, and then dry-brush to remove residual surface efflorescence. Dampen the surface, fill large holes and level out surface unevenness.

Thoroughly mix **ARCADIA® RINZAFFO** with about 24% of potable water (5.5 l – 6.5 l for every 25 kg bag) with a cement mixer or a low-speed drill until a smooth and fluid mortar is obtained (mixing time about 3 - 4 minutes). Apply the mortar by trowel, ensuring that it is spread evenly over the whole surface, with a maximum thickness of 5 mm. Once the mortar starts to set (at least 3 - 4 hours at 20°C), plaster the surface with **ARCADIA® RISANANTE** dehumidifying mortar applied with minimum thickness of 2 cm. Less serious cases can be successfully treated with **ARCADIA® INTONACO**. In this case subsequently apply another coat of **ARCADIA® RINZAFFO** as a skim coat. This coat is required to smooth the surface and improve resistance to efflorescence and soluble salts. The final coating can be applied only once the surface is perfectly dry. For the final coat select a product from **I Classici®** or **Protexil®** product range, which have excellent permeability to water vapour. Apply **ARCADIA® RINZAFFO** only on clean surfaces that are free from dust, loose parts, paint, grease or anything else that could impair adherence.

IMPORTANT NOTES:

- Keep the quantity of water to be added to the mortar to the minimum required.
- Before use, check the condition of the packing. Do not use the product with lumps.
- For professional use only.
- Read Safety Data Sheet before use.
- Once open, the material should be used entirely.
- Do not apply **ARCADIA® RINZAFFO** on weak and loose surfaces; in this case, consult our Technical Service for advice
- When repairing old masonry deteriorated by capillary rising damp, **ARCADIA® RINZAFFO** must always be applied as a render, before application of **ARCADIA® RISANANTE** or **ARCADIA® INTONACO**.
- Before application, ensure that the substrate is perfectly dry and cured, and perfectly adherent. It must be clean and free from oil, grease, mould, fungus, bacteria, efflorescence or any other element that could impair adherence or the successful outcome of the work.
- Store in a cool, dry place.

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- Use product at a temperature of the work environment and treated surface between +5°C and +35°C. Relative humidity must not exceed 75%.
- Do not allow drying to take place with temperature of the work environment and treated surface below +5°C.
- Do not apply product if rain is likely or in the presence of strong sunlight, strong wind or persistent fog.
- Protect treated surfaces from rain for the time required for full curing.
- Scaffolding should be erected in a way that allows work to be continued uninterrupted until a natural boundary of the building is reached, to avoid seams and overlaps.
- Given the many different factors that may affect the successful outcome of treatment, in any case of doubt contact our Technical Service.
- Due to its high alkaline content, the product irritates the skin and eyes. Consequently, avoid contact.

TECHNICAL DATA:

Consumption	6 kg/ m ²
Grain sizes (UNI EN 1015-1)	sieving at 3.00 mm 100% sieving at 1.20 mm 72% sieving at 0.60 mm 62% sieving at 0.09 mm 35%
pH	11.5 – 12.5
Storage	12 months in sealed pack, stored in a dry place
Appearance of product	powder
Colour	pink – light brown
Water for 1 kg	240 g
Water absorption by capillarity (UNI EN 10859)	CA=0.66 mg/cm ² s ^{-1/2}
POrosity normal 4/80 (total porosity)	37%
Porosity normal 4/80 (specific surface area)	5.34 m ² /g
Compressive strenght (UNI EN 1015-11)	after 28 days > 10 Mpa
Flexural strenght (UNI EN 1015-11)	after 7 days > 0.6 Mpa after 28 days > 2 Mpa
Packages	25 kg

CHARACTERISTICS	LIMIT VALUE	MEASURED VALUE
DETERMINATION OF DRY BULK DENSITY UNI EN 1015-10	Declared value	1640 kg/m ³
COMPRESSIVE STRENGHT AFTER 28 DAYS UNI EN 1015-11	CS I (0.4 to 2.5) CSII (1.5 to 5.0) CSIII (3.5 to 7.5) CS IV (≥6)	CS III
ADHESIVE STRENGHT UNI EN 1015-12	Declared value and failure point (FP)	> 0.6 MPa - FP: B
WATER ABSORPTION BY CAPILLARITY UNI EN 1015-18	Declared value	Wo
WATER VAPOUR PERMEABILITY UNI EN 1015-19	Declared value	μ <15
THERMAL CONDUCTIVITY λ _{10, dry, mat} UNI EN 1745	Average value (P = 50%)	0.72 W/mK
DURABILITY	Declared value	NPD
HARMFUL SUBSTANCES	Declared value	See MSDS

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FIRE REACTION UNI EN 13501-1	Declared value	A1
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The above information has been obtained from scrupulously controlled tests, and represents our best and most recent knowledge. This information is provided for reference purposes only. It is not binding upon the manufacturer, and neither may it constitute grounds for any kind of complaint whatsoever associated with the use of the products described, also considering that the conditions of use are beyond our control.

Please refer to the relevant Safety Data Sheet.