



# BRIGLIADORI

## FORNACE CALCE



EDILIZIA, RESTAURO & COSTRUZIONI

### YELLOW ROMAN LIME

CE 16

EN 459-1 Product code 3

#### DESCRIPTION AND USES

Yellow Roman Lime FL 3,5 according the Regulation EN 459-1:2010 is an hydraulic lime obtained by the calcination of marly limestones very rich in silica and alumina in vertical furnaces in layers with a slow process and with temperatures around 1000°C to obtain a porous and high performing lime. The result of this process is partially hydrated and after that milled with natural materials to give a good level of plasticity and water retention.

This product is ideal for building mortars and plasters in the historical and monumental restoration, green building and constructions in general.

Marked product CE with certification n. 0925 CPR Ce b n. 22/2016.

#### TECHNICAL PROPERTIES

| Properties                       | Yellow Roman Lime FL 3,5 | Requirements UNI EN 459-1:2010         |
|----------------------------------|--------------------------|--|
| Colour                           | Light brown-yellow       |  |
| Compression resistance           | at 28 days > 3,5 MPa     | at 28 days $\geq 3,5$ to $\leq 10$ MPa |
| Start working time               | > 4 h                    | > 1 h                                  |
| End working time                 | < 21 h                   | $\leq 30$ h                            |
| Material thickness at 0,09 mm    | $\leq 10\%$              | $\leq 15\%$                            |
| Material thickness at 0,2 mm     | $\leq 0,5\%$             | $\leq 5\%$                             |
| Volume stability                 | $\leq 0,5$ mm            | $\leq 2$ mm                            |
| Sulphate content SO <sub>3</sub> | $\leq 1\%$               | $\leq 2\%$                             |
| Free lime content                | > 15                     | $\geq 15 < 40\%$                       |
| Air content                      | $\leq 25\%$              | $\leq 25\%$                            |
| Packaging                        | 25 kg bag                |  |

#### APPLICATION

Clean and wet carefully old buildings surfaces even in case of old bricks and stones reuse.

Surfaces must be free of dust, efflorescences, not solid parts, detaching products...

Consult our technical service to apply plasters on degraded surfaces with salts problems.

During cold seasons with temperatures below +6°C or with frosty nights take the necessary precautions or delay the work, as during too hot and windy times to avoid too fast drying.

Do not apply the mortar on too wet surfaces or where it can come in contact with back or running water.

Do not apply to gypsum or painted surfaces. Do not apply to concrete without an appropriate preparation.

Mixed surfaces tuff stone brick must have an appropriate preparation (consolidating, mesh...). It is always recommended to use a first consolidating mortar and allow to dry.

It is recommended to apply 1,5 cm per coat.

Mix Yellow Roman Lime in a mixer with local sand without silt with a good aggregates distribution and the necessary water to obtain a good fluid mixture free of lumps (according to the sand type, do the necessary test).

Wait for some minutes, add a bit of water and mix again another few minutes.

Yellow Roman Lime has a fast working time and must be applied over 45 minutes.

For finishes it is recommended to use the same production lot to avoid colour differences. Yellow Roman Lime is a natural product that can have colour differences. It is recommended to use natural finishes and paints.

#### DOSAGE:

3 parts by weight of sand 0-3 mm cleaned and with a good aggregation distribution

1 parts by weight of Yellow Roman Lime

Water about 15-20 %

To increase the resistance and drying time in not historical relevance buildings it can be added 5-10% of white concrete without compromising transpirability and working application.

#### CONDITIONS FOR A SAFE STORAGE

Store the product in a dry place and indoors. Avoid humidity. Waste treatment according to local law.

Storage: up to 12 months in its original and closed packaging in a dry place and indoors.

Product according to Annex II of REACH - Regulation 2015/830.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. Product for professional use. The product use must be based on researches and evaluation of the worker.

This datasheet has been formulated according laboratory tests made during production controls during standard conditions; the details can modify during the application and they are indicative.

The application is made in the building site without our control and the Briigliadori Fornace Calce SRL company doesn't have any responsibility for the application result. The company has the only responsibility of the product, while the application, the use and working are a customer responsibility. The company can modify over time the composition keeping the product characteristics unchanged. This data sheet replaces all previous versions.

Product for professional use.

Date review January 2021

BRIGLIADORI FORNACE CALCE s.r.l.

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