

## LicaCem 200

Plastering mortar for interiors and exteriors, based on mixed binders with controlled hygrometric shrinkage, in class GP according to UNI EN 998-1

**LicaCem 200** is a plastering mortar with controlled hygrometric shrinkage, based on white lime and cement, selected aggregates and special additives. It is used as a plastering base on masonry in brick, concrete block, raw concrete, etc. Formulated in the **Licata SpA R&D laboratory**, **LicaCem 200** features excellent thixotropy, easy workability, plus high binding and wetting power. The controlled hygrometric shrinkage, an added feature of this product, allows it to be applied in thicknesses of up to 25 mm in a single coat, minimising cracking in all the stages of the product's life cycles (application, plastic phase, curing).



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### MAIN FIELDS OF USE

**Licacem 200** can be laid in thicknesses ranging from 10 to 25 mm, either by hand or by machine, effectively fulfilling all the worksite application requirements.

**LicaCem 200** is mainly used as a plastering base on:

- Brick work
- Masonry
- Concrete blocks
- Cast-in-place reinforced concrete

To apply on different substrates, please contact our technical department.

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### CHARACTERISTICS

- Good workability. The combination of fluidity, easy removal from the tools and easy workability is obtained through the use of latest generation additives, reducing the difficulties of laying.
- Controlled hygrometric shrinkage. The special formulation of **LicaCem 200** minimises the appearance of hairline cracks and splits.
- Optimal wetting power
- Excellent thixotropy
- Good binding power.

## APPLICATION METHOD

### Preparation of the substrate

Mechanically remove any flaking or easily detached parts. Thoroughly clean the application area so that it is free of dust, residue from surface treatments, such as detergents, oily substances, mineral or organic grease, wax, traces of chalk or salt.

Concrete and smooth grout surfaces must be treated beforehand with primers for binding such as **LicaSpriz** or **Aggrappante LG**, applying the plaster within the following 12 hours. Joints of different elements must be reinforced with a special fibreglass, alkali-resistant mesh buried in the surface part of the plaster.

The joints between bricks must be filled properly and any holes or large cracks in the masonry must be repaired with **Repair 250 N/R** or **450**. To ensure the walls are sealed, it is advisable to put edge protectors or H-sections in the corners and vertical guides in the walls.

### Preparing the mixture

You need 4-5 litres of clean water (UNI EN 1008) for every 25-kg bag (or 16-20% density).

Pour the product into a clean container with  $\frac{3}{4}$  of the mixing water. Mix for about 3-4 minutes with a low-speed mixer, gradually adding the remaining water until you obtain a thixotropic, uniform, lump-free mixture. Do not divide the packages up into partial mixtures.

If the product is stored in open, partially used sacks, it may not meet the technical characteristics outlined in this document.

### Application

The previously prepared substrate must be wet until saturated and in SSD conditions (Saturated-surface-dry).

Apply in thicknesses of between 10 and 25 mm in a single layer. Spray from bottom to top and then straighten, using a H-shaped striker or knife, smoothing horizontally and vertically, until you obtain a flat surface. For thicknesses above 25 mm, add more layers waiting at least 1 day before applying the next one, always taking care to roughen the substrate layer using a hard grout trowel. This operation, necessary and essential for any type of subsequent work, must always be performed from 1.5 to 4 hours after application, depending on the environmental conditions.

**LicaCem 200**, smoothed with suitable products, such as **RasoTop 800**, **Raso W 160**, **Raso R 140**, **Raso G** etc., is the ideal support for thin decorative plaster, such as silicate, acrylic and siloxane coatings or paint cycles.

**LicaCem 200** reaches full strength 28 days after curing.

Do not apply **LicaCem 200** on substrates that have a film of water on the surface, are completely dry or in extreme conditions, such as walls exposed to full sun or frozen.

Make sure that the ambient temperature, that of the substrate and product during application, is between +5 °C and +35 °C.

## PRODUCT INFORMATION

|                                |  |
|--------------------------------|--|
| Appearance                     | Grey powder  |
| Particle size                  | <1.5 mm  |
| Powder consumption             | 13.5 kg/m <sup>2</sup> every 10 mm of thickness  |
| Mixing water                   | 16-20% of the weight of the powder   |
| Workability time at 20 °C      | 80 minutes   |
| Application thickness per coat | 10-25 mm   |
| Application temperature        | From +5 °C to +35 °C   |
| Storage                        | 12 months in dry, protected place in unopened container at temperatures between +5 °C and +35 °C |
| Packaging                      | 25 kg  |
| Density                        | 1470-1570 kg/dm <sup>3</sup>   |
| pH of mixture                  | approx. 11   |

**PERFORMANCE according to UNI EN 998-1**

| Characteristic                         | Test method      | Legal requirement | Performance                |
|--|------------------|-------------------|----------------------------|
| Compressive strength                   | UNI EN 1015-11   |                   | CS III                     |
| Adhesive strength and fracture pattern | UNI EN 1015-12   |                   | ≥0,25 N/mm <sup>2</sup> -B |
| Capillary absorption                   | UNI EN 1015-18   |                   | W0                         |
| Water vapour permeability coefficient  | UNI EN 1015-19   |                   | ≤ 20                       |
| Thermal conductivity                   | UNI EN 1745:2002 |                   | 0.40 (W/m*K)               |
| Fire resistance                        | EN 13501-1       |                   | A1                         |

**WARNINGS**

- Product for professional use.
- Do not add water or more powder to the product once mixed.
- Alkaline material: protect eyes and skin during application.
- After use, wash tools with water while the mixture is still fresh.
- The ambient temperature and humidity rate influence the workability, setting and drying times.
- Take care of the product's curing period for at least 24 hours after applying, protect the fresh mortar from rapid drying, direct sunlight, strong wind and heavy rain.

**SAFETY**

Please consult the safety data sheet for information about product disposal, storage and usage.

**NOTES**

This data sheet replaces and voids all previous versions.

The indications and specifications given in this document are based on our current technical and scientific knowledge. They should, however, be considered as purely indicative because we have no control over the conditions in which the product will be used. The purchaser must, therefore, check that the product is suitable for his specific requirements. Our sales and technical network guarantees rapid consultancy services and is at your disposal for any clarifications and questions you may have about the use and application of **Licata SpA** products.

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