

**i.design**

**CAEB**

**Air lime (CL 90-S)**

*i.design CAEB slaked lime is a very fine lime, very suitable for the application of thin finishing plasters.*

*Its very high whiteness index allows the color of the chosen sands and dyes to be enlivened, in order to obtain all the desired shades.*

*For this quality, it is particularly recommended for the production of lime paints (whitewashes, etchings, patinas) as well as for the creation of frescoes. i.design CAEB complies with the EN 459-1 building lime standard.*



 Coating  Decoration  Whitewash

## Properties

i.design CAEB has the necessary characteristics for creating delicate and traditional decorations:

- Allows walls to breathe by promoting gas exchange. Prevents rising damp in the walls
- Flexible and smooth mortars, easy to use, thanks to their finesse
- Excellent adhesion to the substrate
- Consistent whiteness enhances local sands which allows you to obtain all the desired shades.
- Allows the preparation of mortars or lime washes (paint) in advance without any time limit for application.

## Uses

- Finishing coatings (DTU 26.1)
- Decorative thin coatings (DTU 26.1)
  - Paints and lime washes
- Stucco



## Main features

|                                   | Unit               | Codes                          | Average values* |
|-----------------------------------|--------------------|--------------------------------|-----------------|
| <b><u>Chemical properties</u></b> |                    |                                |                 |
| Calcium oxide                     | %                  | CaO                            | 73.05           |
| Magnesium oxide                   | %                  | MgO                            | 0.34            |
| Iron oxide                        | %                  | Fe <sub>2</sub> O <sub>3</sub> | 0.184           |
| Aluminum oxide                    | %                  | Al <sub>2</sub> O <sub>3</sub> | 0.188           |
| Silicon dioxide                   | %                  | SiO <sub>2</sub>               | 0.47            |
| Potassium oxide                   | %                  | K <sub>2</sub> O               | 0.01            |
| Loss on ignition                  | %                  | PAF                            | 25.66           |
| Carbon dioxide                    | %                  | CO <sub>2</sub>                | 1.66            |
| Total sulfur                      | %                  | S                              | 0.006           |
| Manganese                         | %                  | Mn                             | 0.015           |
| Phosphorus                        | %                  | P                              | 0.0122          |
| Calcium carbonate                 | %                  | CaCO <sub>3</sub>              | 3.77            |
| Calcium hydroxide                 | %                  | CaOH <sub>2</sub>              | 93.72           |
| Magnesium hydroxide               | %                  | MgOH <sub>2</sub>              | 0.5             |
| CE Specific CO <sub>2</sub>       | %                  | CO <sub>2</sub> CE             | 1.66            |
| <b><u>Physical properties</u></b> |                    |                                |                 |
| Expansion                         | mm                 | EXP                            | 0.2             |
| Apparent density                  | g/L                | MVAP                           | 450             |
| Blaine specific surface area      | cm <sup>2</sup> /g | SBLAIN                         | 13260           |

\* Non-contractual statistical values

## Packaging

25 kg paper bags. Pallets of 40 bags (1000 kg) – 56 litre bags

## Directions for use

- Work between 8° and 30°C
- Protect coated surfaces during and after application during extreme temperatures to avoid altering the setting
- Protect from the sun and wind with a tarpaulin or protective net
- Store the lime bags in a dry, ventilated place for one year after the manufacturing date. indicated on the bags
- Carefully follow the precautions for use mentioned on the bags



## Contraindications

- Do not make reinforced concrete
- As the setting of air lime is very spread out over time, the application of a coating around winter remains delicate for the Successful completion of the project. Lime plasters develop a complete set after 8 to 9 months. Spring is the best season for applications (the water contained in the mortars cannot freeze during the setting at the first frosts).
- Do not apply to saltpeter surfaces (use i.tech RINZAFFO and i.tech VENEZIANO ANTI SALT) or to wooden frames (choose i.pro CENTENARY WALL UNDER COATING)

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