



**COLMEF**<sup>®</sup>  
BUILDING BETTER

# LINEA CALCE

Renovation Architectural Restoration  
Sustainable Architecture



TRANSFORMING TRADITION



**CalceLife** is COLMEF's comprehensive range of NHL-based products (natural hydraulic lime) for green buildings and historical restoration.



**CalceComfort** complements our lime-based range with an innovative natural thermal plaster, specific for green buildings and sustainable architecture.

## **APPLICATIONS and USES**

**RESTORATION** OF MASONRY IN BRICKS, STONE, MIXED AND TUFF

**CONSOLIDATION** OF STONE OR BRICK MASONRY

**STRUCTURAL REINFORCEMENT** FOR SEISMIC RETROFITTING

**RECOVERY** AND STONE CLADDING RESTORATION OF LOAD-BEARING AND INFILL WALLS

**SURFACE FINISHING** OF CIVIL PLASTER

## WHY USE **CALCELIFE**



Range developed for **historical restoration**, physically and chemically compatible with the original masonry components



It improves the **safety of buildings**, thanks to a very smooth mixture with a low water/binder ratio and high penetration power



It contributes to **living quality**, significantly reducing the onset of moulds, thanks to the high alkalinity of lime

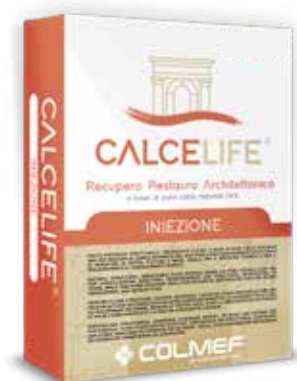


The high productive quality of Colmef ensures **high performance** and excellent workability of formulations

# CALCELIFE INIEZIONE



**Natural, structural, breathable, smooth mortar, based on pure natural lime NHL, for consolidation injections, reinforcement and structural retrofitting of stone, brick and mixed masonry. Ideal for historical restoration and for seismic improvement and retrofitting.**



## TECHNICAL DATA

<b>Compliant with Standard</b>	<b>EN 998-2</b>
<b>Class according to EN 998-2</b>	<b>G-M 15</b>
Appearance	powder
Colour	beige
Volume mass EN 1015-10 (kg/m <sup>3</sup> )	1259
Mixing ratio	5-6 litres of water per 25 kg of product
pH value	≥ 12
Maximum grain size (mm)	0.15
Yield	1.4-1.5 kg / dm <sup>3</sup>
Allowed application temperature	from +5 °C to +35 °C
Compressive strength at 28 dd (N/mm <sup>2</sup> ):	Class M 15

## FIELDS OF APPLICATION

For consolidation injections, for breathable structural reinforcement of historical rubble masonry in bricks, stone or mixed.

## PACKAGING

**CALCELIFE INIEZIONE** is available in 25 kg polyethylene paper bags on 1500 kg pallets.

# CALCELIFE INTONACO



**Highly breathable, fibre-reinforced natural plaster, based on pure natural lime NHL 3.5, for the restoration of stone, brick and mixed masonry.  
Excellent as a thick finishing plaster in structural reinforcement systems.  
Ideal for historical restoration and seismic retrofitting.**



## TECHNICAL DATA

<b>Compliant with Standard</b>	<b>EN 998-1</b>
<b>Class according to EN 998-1</b>	<b>GP-CS II</b>
Appearance	powder
Colour	beige
Volume mass EN 1015-10 (kg/m <sup>3</sup> )	1500
Mixing ratio	4.5-4.75 litres of water per 25 kg of powder
pH value	≥ 12
Maximum grain size (mm)	3
Maximum applicable thickness (cm)	3/4
Yield	14 Kg / m <sup>2</sup> / cm
Allowed application temperature	from +5 °C to +35 °C

## FIELDS OF APPLICATION

Interior and exterior plastering on brick substrates, concrete blocks, concrete structures or mixed masonry.

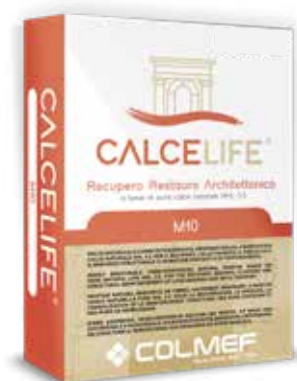
## PACKAGING

**CALCELIFE INTONACO** is available in 25 kg polyethylene paper bags on 1500 kg pallets.

# CALCELIFE M10



**Highly breathable, fibre-reinforced natural mortar, based on pure natural lime NHL 3.5, for the recovery, bedding, stone cladding restoration and structural reinforcement of load-bearing and infill masonry.**



## TECHNICAL DATA

<b>Compliant with Standard</b>	<b>EN 998-1 EN 998-2</b>
<b>Class according to EN 998-1</b>	<b>GP-CS IV</b>
<b>Class according to EN 998-2</b>	<b>G-M 10</b>
Appearance	powder
Colour	beige
Volume mass EN 1015-10 (kg/m <sup>3</sup> )	1659
Mixing ratio	4.5-4.75 litres of water per 25 kg of powder
pH value	≥ 12
Maximum grain size (mm)	3
Maximum applicable thickness (cm)	3/4
Yield	15 Kg / m <sup>2</sup> / cm
Allowed application temperature	from +5 °C to +35 °C
Compressive strength at 28 days (N/mm <sup>2</sup> ):	Class M 10

## FIELDS OF APPLICATION

Specific for use in seismic areas for the construction, recovery, stone cladding restoration and breathable structural reinforcement of load-bearing and infill masonry. It can be used for structural reinforcement with CRM systems consisting of A.R. fibreglass mesh (such as ARMOFLEX 4040). Ideal in listed buildings, for sealing and grouting joints in natural stone, brick or exposed brick masonry.

## PACKAGING

**CALCELIFE M10** is available in 25 kg polyethylene paper bags on 1500 kg pallets.



# CALCELIFE

## M15 GRANA FINE



Highly breathable, fibre-reinforced fine-grained natural structural mortar, based on pure lime NHL 3.5, for the recovery, bedding, stone cladding restoration and structural reinforcement of load-bearing and infill masonry. Ideal for historical restoration and for seismic improvement and retrofitting. Maximum aggregate grain size 1.2 mm.

### TECHNICAL DATA



<b>Compliant with Standard</b>	<b>EN 998-1 EN 998-2</b>
<b>Class according to EN 998-1</b>	<b>GP-CS IV</b>
<b>Class according to EN 998-2</b>	<b>G-M 15</b>
Appearance	powder
Colour	beige
Volume mass EN 1015-10 (kg/m <sup>3</sup> )	1759
Mixing ratio	4.5-4.75 litres of water per 25 kg of powder
pH value	≥ 12
Maximum grain size (mm)	1.2
Maximum applicable thickness (cm)	3
Yield	15 Kg / m <sup>2</sup> / cm
Allowed application temperature	from +5 °C to +35 °C
Compressive strength at 28 days (N/mm <sup>2</sup> ):	Class M 15

### FIELDS OF APPLICATION

Consolidation of masonry structures; consolidation of vaults by making collaborative castings; FRCC reinforcements; reinforced repointing, to be combined with galvanised steel fabrics, basalt-stainless steel meshes and stainless steel helical bars in certified systems for structural reinforcement, seismic improvement and retrofitting.

### PACKAGING

**CALCELIFE M15 GRANA FINE** is available in 25 kg polyethylene paper bags on 1500 kg pallets.

# CALCELIFE M15 GRANA GROSSA



Highly breathable, fibre-reinforced coarse-grained natural structural mortar, based on pure lime NHL 3.5, for the recovery, bedding, stone cladding restoration and structural reinforcement of load-bearing and infill masonry. Ideal for historical restoration and for seismic improvement and retrofitting. Maximum aggregate grain size 3.0 mm.

## TECHNICAL DATA



<b>Compliant with Standard</b>	<b>EN 998-1 EN 998-2</b>
<b>Class according to EN 998-1</b>	<b>GP-CS IV</b>
<b>Class according to EN 998-2</b>	<b>G-M 15</b>
Appearance	powder
Colour	beige
Volume mass EN 1015-10 (kg/m <sup>3</sup> )	1259
Mixing ratio	4.5-4.75 litres of water per 25 kg of powder
pH value	≥ 12
Maximum grain size (mm)	3
Maximum applicable thickness (cm)	3/4
Yield	15 Kg / m <sup>2</sup> / cm
Allowed application temperature	from +2 °C to +35 °C
Compressive strength at 28 days (N/mm <sup>2</sup> ):	Class M 15

## FIELDS OF APPLICATION

Consolidation of masonry structures; consolidation of vaults by making collaborative castings; structural reinforcement with CRM systems consisting of A.R. fibreglass mesh (such as ARMOFLEX 4040) and mortar based on natural hydraulic lime; reinforced repointing; bedding of curtain wall foundations.

## PACKAGING

**CALCELIFE M15 GRANA GROSSA** is available in 25 kg polyethylene paper bags on 1500 kg pallets.

# CALCELIFE RASANTE 0,4



**Natural, highly breathable top coat plaster, based on pure natural lime NHL 3.5, for fine grain finishing of renovation and civil plasterworks. Maximum particle size 0.4 mm.**



## TECHNICAL DATA

<b>Compliant with Standard</b>	<b>EN 998-1</b>
<b>Class according to EN 998-1</b>	<b>GP-CS IV</b>
Appearance	powder
Colour	beige
Volume mass EN 1015-10 (kg/m <sup>3</sup> )	1359
Mixing ratio	5.5-6 litres of water for 25 kg of powder
pH value	≥ 12
Maximum grain size (mm)	0.4
Maximum applicable thickness (mm)	2
Yield	1.3 - 1.6 kg/m <sup>2</sup>
Allowed application temperature	from +5 °C to +35 °C

## FIELDS OF APPLICATION

Smoothing of traditional external and/or internal civil plasters, for smoothing single and multi-product dehumidifying plasters and for finishing heat-insulating plasters (with ARMOFLEX 130 mesh).

## PACKAGING

**CALCELIFE RASANTE 0,4** is available in 25 kg polyethylene paper bags on 1500 kg pallets.

## WHY USE **CALCECOMFORT**



Product developed for **sustainable architecture**, formulated with natural materials, recycled and with low emission



It improves **buildings climate control**, thanks to its complete protection against damp and heat loss



It contributes to **energy savings** compared to traditional masonry, maintaining heat in winter and preserving cooling in summer



The high productive quality of Colmef ensures **high performance** and excellent workability of formulations

# CALCECOMFORT ABITA



**Natural dehumidifying thermal plaster based on pure NHL 3.5 lime.  
Highly breathable, anti-condensation, high energy efficiency, fibre-reinforced. Ideal  
for green buildings.**

## TECHNICAL DATA

<b>Compliant with Standard</b>	<b>EN 998-1</b>
<b>Class according to EN 998-1</b>	<b>RT-CS II</b>
Appearance	powder
Colour	beige
Volume mass EN 1015-10 (kg/m <sup>3</sup> )	> 0.7
Mixing ratio	4-4.5 litres of water for 15 kg of powder
pH value	≥ 12
Maximum grain size (mm)	1.5
Maximum applicable thickness (cm)	4
Yield	6.5 Kg / m <sup>2</sup> / cm
Allowed application temperature	from +5 °C to +35 °C



## FIELDS OF APPLICATION

Breathable and protective plastering of infill masonry for: bricks, blocks, tuff, stone, concrete, cellular concrete, wood-cement and mixed substrates, indoors as well as outdoors. It ensures thermal and dehumidification advantages by acting against rising damp and condensation damp. It does not enable heat losses from the masonry, it fights the problems linked to thermal bridges which lead to mould proliferation.

## PACKAGING

**CALCECOMFORT ABITA** is available in 15 kg polyethylene paper bags on 1080 kg pallets.

For over 40 years, we have been supplying cutting-edge systems and solutions that meet construction industry needs.

**COLMEF GROUP** has been producing solutions for the construction industry since 1980. Based in Gubbio, in the very heart of the Umbria region, it is a well-established company in Italy and abroad.

The range of **COLMEF GROUP** is divided into three brands, each with a highly specialised purpose: COLMEF-branded products, for each application stage and requirement building site: from systems for laying and sealing ceramic tiles, to technical mortars, refractory mortars and products for building restoration; the GEODRY line, comprehensive and “turnkey” systems for waterproofing balconies, terraces, roofs, swimming pools, showers and wellness areas; the PIETRE D’ARREDO brand, which produces naturally reconstructed stone, highly valuable solutions for architecture and design.

### **Sustainability at Colmef Group: our concrete steps**

At Colmef, we have embarked on a path aimed at respecting and protecting our planet, making environmentally sustainable choices on materials and production processes.

The LINEA CALCE is but one of the goals achieved in this process, which entails the use of formulations with recycled aggregates, the development of products that contribute to the achievement of LEED® rating standards in buildings, the development of products with Low Dust technology, VOC Free products, with extremely low environmental emissions, to protect housing comfort.





# COLMEF

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