

# INTOCEM I



## PREMIXED PLASTER BASED ON HYDRAULIC BINDERS REI 120 LIGHTENED WITH A LOW THERMAL CONDUCTIVITY COEFFICIENT Compliant with UNI EN 998-1

### DESCRIPTION

It is a premixed lightened plaster based on natural lime, hydraulic binders and light mineral aggregates, for internal and external base coat plasters, perfect for the protection antifire of walls and slabs, with an high and constant quality level produced with an automated system, to apply by hand or mechanically. Available fiber reinforced with a special composition of polypropylene fibers type "FR".

### COMPOSITION

Hydraulic binders, natural lime, perlite, vermiculite, selected calcareous aggregates with a maximum grading of mm 1,3 and natural additives tested for the specific use which give to the product a very high adhesion and workability. For "FR" type polypropylene fibers.

### FEATURES

An accurate and selective choice of the main materials made with a perfect grading curve, thanks to the use of our own crush system, produce just adding water a mortar very plastic and easily workable. Used as a plaster can be applied directly on every kind of surface. No cracks, no detachment, it's breathable and impact resistant. Subjected to heat does not develop toxic gases. Does not contain toxic elements for the operator's safety.

### USE

INTOCEM I is a lightened plaster for the fireproof protection both wall and ceiling, to apply directly on interiors and exteriors in brick, blocks in lapilli, old masonries, concrete, reinforced concrete, slabs in reinforced brick, etc., to apply by hand or mechanically.

### APPLICATION

- Remove from the walls and the ceilings all the crumbling and inconsistent parts; eliminating dusts, mud, bitumen, oil stains, etc.
- To wet, in advance, particularly absorbent or dry or exposed to hot climates walls;
- To mix by hand, in a cement mixer or with a mixer at low speed, until when the mixture isn't homogeneous; with a plaster sprayer regulating the flow-meter until when the density isn't perfect.
- INTOCEM I must be applied on walls and ceilings, by hand or mechanically, leveling then with aluminum stadia. Additional product on the defected walls and final leveling with aluminum level staff. After the application of INTOCEM I is necessary to sponge the surface to make it uniform with the sponge float and after wetting with water or "grate it" to make it suitable to receive the following finish.
- INTOCEM I can be applied at different thickness is recommended for just one layer not to exceed cm. 1 ÷ 1,5, in case of more layers wait 2 hours at least before applying the second coat.
- The minimum thickness of the finished product doesn't have to be lower to cm 2,5.
- With high temperatures, wind and low humidity, is recommended to protect from the quick drying moistening the substrates.
- For irregularities over cm 2 to fill with INTOCEM I to let 48 hours at least taking care not to mix with too much water to avoid a reduction of the mechanical strength.
- To apply on reinforced concrete substrates previously treated with the bonding mortar "INTOAGGRAPPO".
- To apply on tuff, stones, mixed masonries substrates previously treated with "INTOBETON/R".
- On foamed concrete blocks to apply in advance the bonding mortar "INTOAGGRAPPO".
- To apply on very smooth reinforced concrete substrates previously treated with the adhesion promoter "ANCOMUR".
- Don't apply on frozen substrates, with frost or possible frost in 24 hours.
- Don't apply with strong wind or in very sunny days.
- Don't apply until when the substrate isn't completely dried.
- Don't apply on inconsistent and friable substrates.
- Don't apply on gypsum substrates, synthetic coatings or paintings.
- Don't apply with driving rain.
- Don't add any other material to the product.
- We suggest to apply INTOCEM with a temperature between + 5 ° C and + 30 ° C.

# INTOCEM I



## YIELD

9/10 kg/mq per 1 cm of thickness.

## PACKAGING

Loose in silo (gravity feed) .

Multi-ply paper sacks with protection of kg 22 on wood pallets of 15,40 ql. (70 sacks).

## TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 998-1

<b>Water content of the mix</b>	~25-27%
<b>Grading EN 1015-1</b>	≤ 1,3 mm
<b>Specific Weight EN 1015-10</b>	kg/m <sup>3</sup> 850 ± 10%
<b>Plastic shrinkage in cond. Termoigr. Standard</b>	Absent
<b>Pot life</b>	2 hours
<b>Workability time EN 1015-9</b>	40 minutes
<b>Compressive strength after 28 days EN 1015-11</b>	3,0 N/mm <sup>2</sup> (Category CS II)
<b>Flexural strength after 28 days EN 1015-11</b>	> 1,5 N/mm <sup>2</sup>
<b>Adhesion on brick EN 1015-12</b>	0,5 N/mm <sup>2</sup> FP:A
<b>Fire resistance</b>	120 minutes for a thickness of 2,5 cm
<b>Water vapor diffusion resistance factor EN 1015-19</b>	μ = 5
<b>Water abs. coef. due to capillary action EN 1015-18</b>	Class "W0"
<b>Reaction to fire EN 992-1</b>	Class "A1"
<b>Thermal conductivity coefficient EN 1745 p.A.12</b>	λ <sub>10,dry,mat</sub> = 0,25 W/mK
<b>Durability</b>	NPD
<b>Toxicity - Regulation CE 1272/08</b>	Dangerous
<b>Classification UNI EN 998-1:2010</b>	LW-CSII-W0/DOP nr. 170
<b>Fire resistance compliant with D.M. of 16/02/2007</b>	REI 120

## SUMMARY

The fire protection of walls and slabs will be realized through application of lightened plaster antifire based on hydraulic binders, perlite and vermiculite, type "INTOCEM I" or fiber reinforced with a special composition of polypropylene fibers type "FR" by MALVIN S.r.l., applied by hand or mechanically and to mix just adding water, with a consumption of 9/10 kg/mq for cm of thickness, with a compressive strength after 28 days category CS II and fire resistance REI 120 thickness cm 2,5.

*The performance characteristics refer to laboratory tests, values depend on the weather conditions and on the methods of implementations. The operator must verify the suitability of the product depending on the use planned.*



# MALVIN



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