



# INTOMASSO BE 3 LIGHT



## LIGHTENED BASE SCREED WITH HIGH THERMAL INSULATION FOR FLOORS AND ROOFS COMPLIANT WITH EN 13813-2002

### DESCRIPTION

INTOMASSO BE 3 is a lightweight, thermo-insulating premixed mortar, at compensated shrinkage with high and constant quality level, produced with computerized system, for the realization of lightened and heat insulating screeds for indoor and outdoor substrates.

### COMPOSITION

Hydraulic binders, hollow glass spheres, selected calcareous aggregates in curve adequately recomposed with grading from 0 to 3 mm, additives tested for the specific use which give to the product a very high adhesion and workability.

### CHARACTERISTICS

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 lightened screed, it can be applied directly on any internal or external surface, provided it is stable and not subject to capillary rising. It does not crack, does not detach, is breathable and impact resistant. It is the ideal base for any type of flooring.



### USE

INTOMASSO BE 3 LIGHT is a premixed lightened mortar at compensated shrinkage with controlled drying ideal for the realization by hand or machine of lightened screeds of substrate, to apply directly on every type of interior or exterior but stable and not subjected to capillary action, suitable to receive the subsequent application of every type of floor and waterproofing membrane and cementitious waterproofing; suitable for the realization of screeds generally indoors and outdoors, lightweight screeds, insulating under tiles, for slopes and roofs, floating screeds on resilient mats for soundproofing noise from footsteps.

### SUPPORTS

#### Anchored screed

Check that the support is strong and has a r.h. < 2%.

Preparation of the substrates by removing all the dilapidated and inconsistent parts; removing foreign bodies such as dust, mud, bitumen, oil stains, etc.

Apply a strip of compressible material along the perimeter walls with a thickness between 4 and 8 mm.

Apply anchor grout, consisting of 1 part latex INTOGUM by volume, 1 part water and 2 parts cement. Apply grout with brush or broom. Lay the screed INTOMASSO BE 3 LIGHT fresh on fresh.

For thicknesses between 3,5 and 5 cm mix INTOMASSO BE 3 LIGHT with water and latex INTOGUM related to 1:4

#### Floating screed

Check that the support is strong and has a r.h. < 2%.

Apply a strip of compressible material along the perimeter walls with a thickness of between 4 and 8 mm.

Lay waterproof sheets (in polyethylene, PVC, etc.) all over the surface, taking care to overlap the sheets at the joints by at least 25 cm and on the walls, exceeding the compressible tape by at least 2 cm.



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## MINIMUM THICKNESS OF APPLICATION

- Anchored screed cm 5
- Anchored screed (SEE APPLICATION) cm 3,5
- Floating screed cm 5
- Floating screed on insulating mats up to 6mm cm 6
- Floating screed on insulating mats from 7 to 12mm cm 7
- Floating screed on insulating mats from 13 to 20mm cm 8

## APPLICATION

- Take particular care in preparing the substrate, eliminating cracks and, if necessary, carrying out insulations and waterproofing.
- For floors in contact with the ground, waterproof the substrate with a sheath.
- To mix in Concrete Mixer Cup or with pressure pump or manual pump; with continuous mixer by adjusting the flowmeter up to optimal density.
- The mixture must have the consistency of moist soil.
- Perform level guides.
- Stand and compact to the desired level.
- In case of application on insulating panels it is recommended to insert in the screed MALVIN NET 4.4 certified fibreglass mesh ETAG 004 mesh 4x4 cm, with weight of 130 gr/mq, taking care to keep it raised from the substrate so as to be inserted into the first/third of the screed.
- Arrange the separation of the screed in correspondence of thresholds, doors or projections and in any case the length/width ratio of the rooms exceeds the value of 3 and also in case of irregular surfaces.
- Boxes with a regular shape of no more than 25 mq can be made without the use of joints.
- For uniform thicknesses higher than 5 cm, no net is required.
- In casting applications always insert MALVIN NET 4.4 certified fibreglass mesh ETAG 004 mesh 4x4 cm, with weight of 130 gr/mq.
- In case of ducts, pipes and large depressions, insert in the screed MALVIN NET 4.4 certified fibreglass mesh ETAG 004 mesh 4x4 cm, with weight of 130 gr/mq.
- For thicknesses between 3,5 and 5 cm, apply anchor grout, consisting of 1 part by volume of latex INTOGUM, 1 part of water and 2 parts of cement. Apply the grout with brush or broom. Lay the screed INTOMASSO BE 3 LIGHT fresh on fresh, to be mixed with water and latex INTOGUM in ratio 1 to 4 and insert on the screed MALVIN NET 4.4 certified fibreglass mesh ETAG 004 mesh 4x4 cm, with weight of 130 gr/mq, taking care to keep it raised from the substrate so as to be inserted into the first/third of the screed.
- In case of high temperatures, wind and low humidity, it is recommended to protect from rapid drying by moistening the substrates.
- Protect the screed from wind, sun and rain for at least 48 hours.
- Do not apply on frozen substrates, when thawing or when there is a risk of freezing within 24 hours.
- Do not apply in full sun or strong winds.
- Do not apply on fresh application substrates.
- Do not apply on inconsistent and brittle substrates.
- Do not apply in heavy rain.
- Don't add any other material to the product.
- INTOMASSO BE 3 LIGHT must be processed at a temperature between + 5 ° C and + 30 ° C.
- Finish the screed with a trowel or a rotating disc machine.
- Use self-leveling product "INTOMASSO AL" if you want to obtain a screed with a surface perfectly smooth.
- Lay the floors after making sure that the humidity of the screed is less than 2%.
- It is recommended to use good elasticity adhesives for the laying of ceramic floors.
- Walkability 24 hours.
- Laying of non-water-sensitive floor 7 days.





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## YIELD

10 kg/mq per cm of thickness depending on the compaction.

## PACKAGING

Bulk in drop silo.

Multilayered paper bags with protective film of kg 20 on wooden pallets of 14,50 ql. (70 sacks).

## TECHNICAL DATA ACCORDING TO UNI EN 13813-2002

<b>Water content of the mix</b>	6,5/7,5 % (Up to moist soil consistency)
<b>Granulometry EN 1015-1</b>	≤ 4 mm
<b>Specific weight ± 10% EN 1015-10</b>	800 kg/m <sup>3</sup>
<b>Workability time EN 1015-9</b>	60 minutes
<b>Compressive strength after 28 days EN 13892-2</b>	9,5 N/mm <sup>2</sup> (C7)
<b>Flexural strength after 28 days EN 13892-2</b>	3,2 N/mm <sup>2</sup> (F3)
<b>Water vapor diffusion resistance factor EN 1015-19</b>	μ = 8
<b>Residual humidity after 28 days</b>	1,7%
<b>Fire reaction EN 13813</b>	Class "A1fl"
<b>Thermal conductivity EN 13813 p.to.5.3.7</b>	λ=0,24W/mK
<b>Specific heat EN 1745</b>	1,00 kj/kg K
<b>Durability</b>	NPD
<b>Attenuation of the walking level (ΔL<sub>nw</sub>):</b>	dB 15
<b>Harmfulness - Regulation EC 1272/08</b>	Danger
<b>Classification UNI EN 13813:2002</b>	CT-C7- F3/DOP nr. 293

## SUMMARY

Lightweight insulating screeds for interiors and exteriors, lightweight screeds, under-roof insulators, for slopes and roofs, floating screeds on a resilient mattress for soundproofing of footfall noise, suitable to receive the following application of every type of floor and waterproofing sheath and cementitious waterproofing, will be made with lightened mortar for pre-mixed screed with compensated shrinkage at controlled drying based on hydraulic binders and hollow glass spheres type "INTOMASSO BE 3LIGHT" by MALVIN S.r.l., applied by hand and mixed with water only, with a consumption of 10 kg/mq per cm of thickness depending on the degree of compaction and with classification EN 13813-2002 CT-C7-F3 and thermal conductivity EN 13813 p.to.5.3.7 λ=0,24W/mK.

*Le caratteristiche prestazionali riportate si riferiscono a prove di laboratorio, i valori possono subire scostamenti in funzione delle condizioni climatiche e modalità di messa in opera. L'utilizzatore deve verificare l'idoneità del prodotto all'impiego previsto.*



# MALVIN

