

INTOMASSO ESP



PREMIXED PLASTER LIGHTENED WITH PEARLS OF EXPANDED POLYSTYRENE FOR HEAT INSULATING SCREEDS

DESCRIPTION

INTOMASSO ESP is a premixed screed lightened with pearls of expanded polystyrene at compensated shrinkage with an high and constant quality level, produced with an automated system, for the realization of insulating base coat screeds inside and outside.

COMPOSITION

Hydraulic binders, pearls of expanded polystyrene, natural additives tested for the specific use which give to the product a very high adhesion and workability.

FEATURES

An accurate and selective choice of the main materials made with a perfect grading curve, produce just adding water a mortar very plastic and easily workable. The composition of INTOMASSO ESP, with a low specific weight, allows an high thermal insulation.



USE

INTOMASSO ESP is a premixed mortar lightened with pearls of expanded polystyrene, with a compensated shrinkage and controlled dry ideal for the realization by hand or mechanically of insulating base coat screeds, to apply directly on every kind of interior and exterior but stable and not subjected to rising damp suitable to receive the following application of every type of screed, for the thermal insulation of coverings, for lightening castings or fillings.

APPLICATION

- Verify that the substrate is resistant.
- Prepare the substrates removing all the crumbling and inconsistent parts; and dusts, mud, bitumen, oil stains, etc.
- Apply along the perimeter walls a strip of compressible material with a thickness between mm 4 and 8 with height higher than that of the finished screed.
- Always moisten the substrate before the application of INTOMASSO ESP avoiding water stagnations.
- When necessary apply a bonding grout, made by 1 part in volume of latex INTOGUM, 1 part of water and 2 parts of cement.
- Apply the grout with a brush or a broom. Lay the screed INTOMASSO ESP with the "fresh on fresh" technique".
- Apply special sideboards heavily galvanized or level points.
- Screed with a specific H-shaped level staff .
- The minimum thickness of the finished product doesn't have to be lower to cm 4.
- To mix in a concrete mixer or with a pressure or manual pump, until when the mixture isn't homogeneous but never for more than 4 minutes; with a plaster sprayer regulating the flow-meter until when the density isn't perfect.
- The mixture must have the texture of a plastic mortar.
- In presence of di ducts, pipes and big dips insert on the screed MALVIN NET 4.4 network in glass fiber certified ETAG 004 mesh 4x4 cm, with weight of 130 gr/mq.
- Prepare fractionations of the screed in correspondence of thresholds, doors or protrusions and in any case limiting the achievable surface for each jet for a maximum of 40 mq.
- With high temperatures, wind and low humidity, is recommended to protect from the quick dry moistening the substrates.
- Protect the screed from wind and sun for 48 hours at least.
- 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 with driving rain.
- Don't add any other material to the product.
- We suggest to apply INTOMASSO ESP with a temperature between + 5 ° C and + 30 ° C.



- Apply the following screed only when INTOMASSO ESP is completely dried.
- Use self-leveling INTOMASSO AL or cement and glue grout to make the surface suitable to lay directly floors through application of a specific consolidating "INTODUR".
- To use INTOMASSO ESP as under screed before the plastering, is recommended to protect its surface with self-leveling INTOMASSO AL or cement and glue grout.
- Use self-leveling INTOMASSO AL if you want to obtain a screed with a perfectly smooth surface.
- Waiting time to lay the self-leveling INTOMASSO AL 7 days at least.

YIELD

1 sack for 1 mq thickness cm 4.

PACKAGING

Multi-ply paper sacks with protection of 50 lt on wood pallets of 55 sacks.

TECHNICAL SPECIFICATIONS

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| Water content of the mix | ~65-70% |
| Grading EN 1015-1 | ≤ 5 mm |
| Specific Weight | 280 kg/m ³ ± 10% |
| Workability time EN 1015-9 | 60 minutes |
| Compressive strength after 28 days EN 1015-11 | 1,5 N/mm ² (CSI) |
| Flexural strength after 28 days EN 1015-11 | 0,6 N/mm ² |
| Adhesion after 28days EN 1015-12 | 0,3 N/mm ² FP:A |
| Certified thermal conductivity coefficient ** | l = 0,0762 W/mK |
| Water vapor diffusion resistance factor EN 1015-19 | μ ≤ 9 |
| Residue humidity after 28 days | 1% |
| Fire reaction EN 998-1 | Class "A1" |
| Durability | NPD |
| Mitigation of the level of impact noise (ΔL_{nw}): | dB 12,5 |
| Toxicity - Regulation CE 1272/08 | danger |
| Classification UNI EN 998-1:2010 | T1-CSI-W0/DOP nr. 248 |

CERTIFICATION

**Certificate Institute Giordano n° 281240 of 18/04/2011

SUMMARY

Insulating internal and external base screeds will be realized with a mortar for premixed screed lightened with pearls of expanded polystyrene at compensated shrinkage and controlled dry based on hydraulic binders and pearls of expanded polystyrene, type "INTOMASSO ESP" by MALVIN S.r.l., applied by hand or mechanically and to mix just adding water, with a consumption of 1 sack for 1 mq thickness cm 4.

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

