

ISOLFONDO

ISOLFONDO is a lightweight, biocompatible insulating subbase, pre-packaged powder for interior and exterior use, according to standard UNI EN 13813. ISOLFONDO is free from cement or compounds belonging to the clinker group. It consists of a mixture of pure mineral sands, expanded with low specific weight, screened with continuous grain size arc from 0 to 5 mm. The only binder present is ST ASTIER Pure Natural Hydraulic Lime NHL 5 according to standard UNI EN 459-1. The lime NHL 5, white, is produced by baking siliceous limestones at temperatures below 1250°C and reduced in powder by only the breakdown of calcium oxide, without the addition of pozzolanic materials or hydraulic binders of any kind.

- Dehumidifying
- Environment Friendly
- Radon Free
- Restoration
- Breathable
- Resistant
- Cement Free
- Versatile
- Recyclable
- Healthy
- Antibacterial
- Anti-Condensing
- Anti-Mould
- Nhl 5
- Quick
- Reversible
- Easy
- Green Building



Features

ISOLFONDO is a lightweight, insulating subbase, pre-packaged powder, biocompatible, free of salts, chemical products and volatile organic compounds (VOCs). These features, combined with the total mineral nature of the components, guarantee the purity, non-toxicity, non-harmfulness and the total recyclability of the product in full respect for man and the environment. The expanded minerals with low specific weight, which constitute ISOLFONDO have a cellular structure characterised by micro cavities. Such structure provides an insulating power to the material, reducing heat transmission, as well as sound absorbing capacities. The use of ISOLFONDO makes the subbases eco-friendly, biocompatible and reversible, giving considerable thermal insulation power and mechanical properties.

Fields of Application

ISOLFONDO is specific for the formation of lightweight, insulating subbases for new and old buildings, for low and high thicknesses from 2 to 15 cm and beyond. It is easily workable with the traditionally used techniques in laying the subbases. ISOLFONDO is used for the realisation of the layer between the floor and the flooring for the distribution of loads, for floor levelling and for covering the plant systems. It is recommended as a subbase for laying the underfloor heating systems. Excellent for filling vaulted structures and spandrels.

Application

The ISOLFONDO subbase can be applied manually or by pump and is mixed only with about 7 l of water per bag, depending on the desired consistency. After the preparation of the level bands you will proceed with the casting of the mixture, suitably consolidated, to fill the background. To straight edge and float the surface in a multilayer system. Wait for the full curing.

Warnings

- Product for professional use.
- Do not modify the product.
- Store the product in a dry place in the original sealed packages.
- Before using the product refer to the Safety Data Sheet.
- The data given correspond to the technical and application knowledge we have for proper use of the product, so it is recommended to carry out a practical test prior to in order to verify the suitability of the product for its intended use and consumption.
- Protect the surfaces from atmospheric phenomena, sun, wind, rain and frost.
- Since our company is not the executor of the works and can not intervene directly on the construction site conditions and on the methods of work execution, the indications given are to be considered as indicative and general, and therefore not binding for the same.
- The Company reserves the right to make the changes at any time without notice when it deems necessary.
- For more information and practical product demonstrations please consult our technical service.
- Always refer to the updated versions of the technical data sheets available at www.tcs-srl.it.

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PRODUCT TYPE Light and insulating conglomerate for subbases complying with the standard UNI EN 13813

GRAIN SIZE CURVE (EN 1015-1) 0 - 5 mm

pH OF THE MIXTURE > 12.5

FRESH MORTAR APPARENT DENSITY (EN 1015-6) 670 kg/m³

DRIED MORTAR APPARENT DENSITY (EN 1015-10) 400 kg/m³

APPARENT DENSITY IN PILE 570 kg/m³

COMPRESSIVE STRENGTH (EN 1015-11) categoria CS II

FLEXURAL STRENGTH (EN 1015-11) 1.3 N/mm²

MINIMUM APPLICABLE THICKNESS > 3 cm

ADHESION (EN 1015-12) > 0,1 N/mm² FP-B

WATER VAPOUR PERMEABILITY COEFFICIENT (EN 1015-19) $\mu < 6$

INITIAL SETTING TIME AT 20°C 65% U.R. 4 h

FINAL SETTING TIME AT 20°C 65% U.R. 8 h

THERMAL CONDUCTIVITY (EN 12667) λ_{D} 0.059 W/(mK)

AIR CONTENT IN FRESH MORTAR (EN 1015-7) 30%

PEDONABILITY 24/48 hours after laying

FLAME RESISTANCE (EN 13501-1) A1 class

MIXING WATER 7 l per bag

CONSUMPTION 3.7 kg/m² 1 cm thick

PACKAGING 17 kg bag

PALLET 48 bags, 816 kg

STORAGE Keep in dry place for 18-24 months in original package

APPLICATION TEMPERATURE from +5°C to +32° C

REACH CLASSIFICATION See SDS