

SOUNDPROOFING
UNDER
TILING

NEW FOR 2009



isolmant
benessere acustico e termico



isoltile

soundproof the floor
in order to restore
acoustic wellbeing



isolTILE

Soundproofing under tiling

■ DESCRIPTION

isolTILE is high density polypropylene soundproofing against footfall, designed to be glued under ceramic flooring.

■ APPLICATIONS

Used in the renovation of **existing floors**, it guarantees acoustic improvement of the level of footfall both when replacing ceramic flooring and when laying over existing flooring.

It is ideal in the creation of **new floors** and, in combination with a floating floor, allows excellent results to be achieved in terms of soundproofing against footfall, even in the most complicated situations.

■ ADVANTAGES

- **Renovation of an existing floor as regards acoustics** where reconstruction by laying a floating floor is not envisaged and the flooring is either simply replaced or new flooring is laid over the existing flooring;
- **Contribution to soundproofing against footfall**, especially in new buildings where the risk of acoustic bridges or flanking factors can jeopardise the possibility of reaching the legal limit;
- **Positioning the new flooring on an excellent slip layer** which reduces the risks of the new ceramic tiles cracking due to shrinkage, deformation and humidity on the bottom (with new flooring) or due to the planarity, surface and consistence of the existing flooring (with renovation);
- **Reducing the risks of breakage of the ceramic tiles** in cases where they are laid on screeds which are not particularly firm or which are damp or limited in thickness (and therefore exposed to the risk of cracking).



The polyolefin foam which represents the dampening element for reducing vibrations is covered on both sides by a special technical non-woven fabric which ensures bonding to the adhesive.

In general **isolTILE** can be used in the presence of flat, sufficiently smooth, load-bearing load divider layers. Any surface parts which are potentially dangerous for suitable, complete bonding of the bonding elements must be removed. Any serious irregularities or the non-planarity of the foundation must be corrected before laying takes place.



LAYING INSTRUCTIONS



From the test performed in the laboratory, in compliance with the UNI EN ISO 140/8 standard on a surface area of 10 m², it came to light that the application of ISOLTILE under ceramic coverings allows a reduction in footfall noise transmission of up to 9 dB.

- 1 The load divider layer on which **isolTILE** will be laid must be flat, suitably smooth and load-bearing. If necessary, level the surface before laying.
- 2 Spread the first bonding layer which is suitable and compatible with the foundation using a finely notched trowel (e.g. 4 mm), which is nevertheless suitable for the specific application, in order to guarantee the complete bonding of the bonding elements. If the existing flooring is being renovated, it is necessary to separate the bonding layers and the flooring from the walls or from the structural elements along the perimeter of the room in order to prevent acoustic bridges. For this purpose, it is possible to use self-adhesive strips of resilient material.
- 3 Lay **isolTILE**, paying attention to the 'open time' of the adhesive and ensuring that it has bonded completely, exercising suitable pressure on it using a roller or float. In order to ensure the continuity of the soundproofing layer, it is necessary to bring the various **isolTILE** sheets close together and seal them using the appropriate **isolTILE STRIP** which is already contained in the pack.
In order to protect the soundproofing state, it is advisable to lay walkways (above all close to the area affected by the passage of material whilst laying the tiles).
- 4 It is advisable to wait at least 24 hours from the end of the works before starting to lay the tiles (this is only approximate; it is the responsibility of the layer, based on the type of adhesive chosen, to establish after how long it is possible to start laying the tiles).
- 5 The tiles may be glued directly onto **isolTILE** using a suitable bonding layer, laid evenly to the highest standards of workmanship, which must be laid using a suitable notched trowel, chosen based on the type and format of tile, following the instructions provided by the manufacturer of the glue to the letter.





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■ WARNINGS

In order to 'fine tune' the product and study the bonding elements, the Tecnasfalti Research Centre used cement bonding layers for tiles with the C2 classification.

As a general rule, all glues certified for professional use suitable for the application can be used, and it is the responsibility of the person applying said adhesive to evaluate its suitability.

Cement glues with bonding and workability characteristics which are equal to or greater than class C2 are recommended.

It is important to respect the 'open time' of the glue indicated by the manufacturer in order to ensure the highest levels of performance of the bonding layer during laying.

It is not advisable to use bonding layers which are not adequately supported by a technical data sheet, user instructions and levels of performance guaranteed by the manufacturer.

It may be problematic to use polyurethane adhesives as they are very sensitive to environmental conditions in the laying phase.

■ DENSITY

■ THICKNESS

■ THERMAL CONDUCTIVITY

■ THERMAL RESISTANCE

■ NOISE ABATEMENT

■ COMPRESSION

STRESS/STRAIN
S ISO-3386-1

■ ROLL FORMAT

■ ISOLTILE STRIP

TECHNICAL DATA

77 kg/m³

approx. 2 mm

0,0370 W/mK

0,0540 m²K/W

$\Delta L_{W} = 9$ dB

def. 10% - 151 kPa

def. 25% - 180 kPa

def. 40% - 222 kPa

def. 50% - 274 kPa

1m x 20m = 20m²

7,5cm x 20m

included in the pack



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