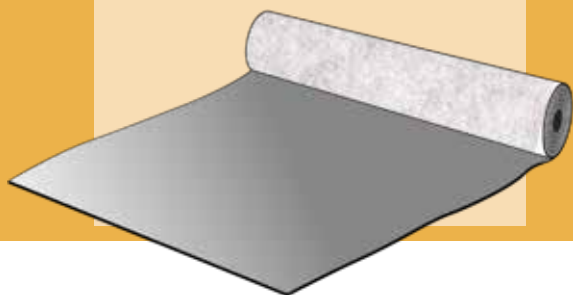



FONOSTOPTile Floatingadhesive

MULTIFUNCTIONAL, UNDERFLOOR, SELF-ADHESIVE FOR ACOUSTIC INSULATION AGAINST FOOT TRAFFIC NOISE FOR FLOATING INSTALLATION WITH NO NEED FOR ADHESIVE OF CERAMIC, WOOD AND NATURAL STONE FLOORS, HAVING WATERPROOFING AND ANTI-CRACKING PROPERTIES FOR INDOORS FLOORS



GRANTS *LEED* CREDITS

CHARACTERISTICS		ENVIRONMENTAL		
				
ACOUSTIC INSULATION	REACTION TO FIRE	ECO GREEN	RECYCLABLE	SAFE WASTE

1 PROBLEM

In civil building a requirement arose to guarantee acoustic insulation against foot traffic noise and the waterproofing of internal slabs as well as protecting the flooring from the cracks and damp that could be transmitted from the laying surface to the floor itself.

A further requirement, which regards both new buildings and to an even greater extent the refurbishment of old floors, is that of using insulation materials and systems that make it possible to reduce the thicknesses of the under-floor layers. Particularly in the case of rigid marble, ceramic and stone floors, the problem is even more accentuated because a higher degree of insulation against foot traffic noise is normally obtained by laying a floating screed between the layer of acoustic insulation and flooring, making laying times longer and the process more complicated and reducing the living volumes due to the high thickness (at least 4 cm).

The requirement of reducing the setting times of the adhesives used for laying the floors themselves is also increasingly important.

2 SOLUTION

FONOSTOPTile Floatingadhesive is an acoustic insulation with adhesive upper face of just 2 mm which is laid dry directly under the flooring without screed and not only waterproofs it and provides excellent acoustic insulation against foot traffic noise, but is also an effective vapour barrier with good mechanical strength which prevents transmission of cracks from the slab to the flooring itself. It is an effective vapour barrier and has high mechanical resistance preventing the transmission of the cracks in the slab to the flooring, but, furthermore, its upper face is adhesive so that wooden and ceramic, marble or stone floors can be laid without adhesives, with the sole requirement of sealing the joints in the latter types.

The essential condition for the use of FONOSTOPTile Floatingadhesive is that the laying surface and the flooring

elements are both perfectly level.

FONOSTOPTile Floatingadhesive type is used for floating wood floors, or ceramic floors especially designed for this particular laying procedure, and it is used in general on flexible wooden and covered gypsum surfaces.

FONOSTOPTile Floatingadhesive is a single thin sheet in which two layers can be distinguished: a polyester fibre non-woven fabric onto whose upper face a self-adhesive waterproof layer has been calendered, that is devised to extend the adhesiveness also at low temperatures and to allow the cold self-adhesion properties to be maintained over time. The functionality of the product is based on the high water and water vapour proof characteristics of the layer of mainly elastomeric nature.

The thickness of the non-woven fabric fibres that are free to be deformed elastically under the action of the foot traffic generated on the flooring under which it is applied guarantees the foot traffic noise insulation performance. The high basic weight non-woven fabric also has very high tensile strength and perforation resistant properties that prevent the transmission of the cracks in the laying surface to the flooring above. The extremely high adhesiveness of the upper face of the membrane allows it to act as an adhesive for fixing ceramic and wood floors that are laid above without having to use traditional adhesives.

Laying ceramic floors without adhesives makes the floor immediately passable during all the laying operations without any limitations connected with the setting times of traditional adhesives (from 3 to 24 h according to the type) and, until the final filling stage of the joints, the operators can freely walk across the tiles bonded by

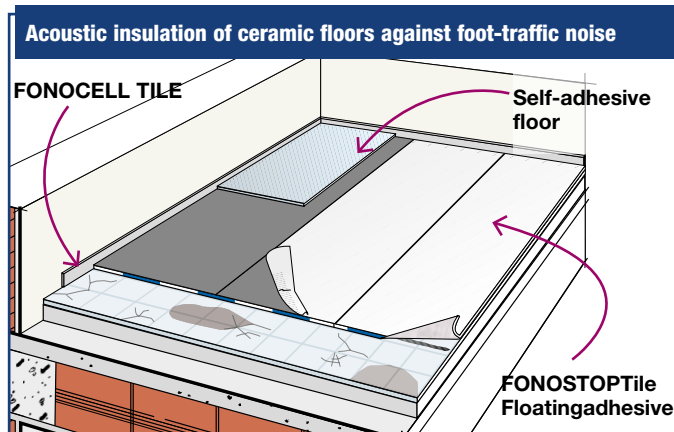
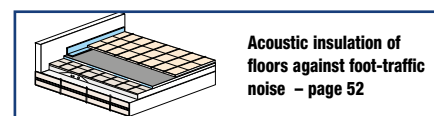
simple self-adhesion.

Laying wood floors is even simpler where the elimination of the glue and absence of the joint filling steps makes the flooring immediately passable.

In both cases, circulation on the floor over time gradually strengthens its adhesion. The space taken up by the system is only the thickness of the sheet to which the thickness of the pre-chosen flooring must be added. The reduction in thickness of the layered arrangement leads to the great advantage of allowing the refurbishment of an old floor, without having to demolish the existing one but simply by placing the membrane onto it and then the new floor, also eliminating the thickness of traditional glue. For new buildings to be floored with ceramics, the elimination of the floating screed and the traditional resilient layer due to the use of the membrane and the laying system, allows the great advantage of a reduction in thickness of at least 4 cm per floor and the elimination of the screed setting times (at least 72 h).

FONOSTOPTile Floatingadhesive is supplied in rolls with the upper face covered in adhesive protected by a non-stick silicone coated film.

(See following)



FONOSTOPTile Floatingadhesive

Mass per unit area		1.00 kg/m ²
Roll size		1.00 x 15.0 m
Thickness	UNI 9947	approx. 2.0 mm
Impermeability	EN 1928	60 KPa
Aqueous vapour diffusion coefficient		μ 50 000
Thermal conductivity λ		0.170 W/mK
Cold flexibility		-25°C
Traction resistance (L/T)		800/650 N/5 cm
Ultimate failure elongation (L/T)		30/35%
Peel test on steel		117 N/5cm
• new		92 N/5cm
• after thermal ageing of 30 d at 70°C		
Fire reaction class	EN 13501-1	Euroclass C _{fl} -s1 (*)
Certification		LAPI

(*) LAPI certificate n. 1168.ODC0050/11 equivalent to Class 1 pursuant to Ministerial Decree 10-03-2005 latest edition, dated 16-02-2009.

(See previous)

APPLICATION FIELDS

FONOSTOPTile Floatingadhesive is used to insulate and protect the internal slabs of buildings, also made of wood, both in new jobs and for refurbishments of old rigid floors as long as they are uniform enough and the elements of the new flooring are level.



METHOD OF USE

Unroll **FONOSTOPTile Floating** onto the laying surface lining it up with one of the walls and cut to measure. For easier laying it is possible to fix the sheets onto a coat of FONOCOLL laid in strips. Proceed with the application repeating the laying, cutting and alignment operations, keeping the sheets perfectly lined up alongside each other. If you wish to install the sheet without gluing it for removal at a later time, before you install the floor we recommend laying a strip of double-sided tape on the end of the roll, which otherwise tends to roll up, as shown in the following photographs.



the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

DETERMINATION OF FOOT TRAFFIC NOISE ON SITE

On an existing clay cement floor slab 20+4 cm, floored with ceramic tiles, we measure the foot traffic noise before and after installation of **FONOSTOPTile Floatingadhesive** and the new ceramic flooring. We used a room on the 1st floor as the source and made the measurement in the room directly below it (ground floor) for a volume of 314 m³.

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Existing floor $L_{n,w} = 69$ dB
 Renewed floor, insulated with **FONOSTOPTile Floatingadhesive** $L_{n,w} = 55$ dB
 Benefit $\Delta L'_{n,w} = 14$ dB

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

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