



Mapesilent Comfort

**Soundproofing system
for floating screeds
to combat impact
noise from footsteps**



WHERE TO USE

Slim, dry soundproofing system (6 mm thick) to reduce impact noise from footsteps transmitted between adjacent housing units applied below floating screeds before installing all types of flooring (ceramic tiles, stone, resilient and fabric floor coverings, wooden flooring, etc.).

Mapesilent Comfort is applied between the structure and the floating screed.

Some application examples

Soundproofing against impact noise from footsteps on all types of floor slab, according to the soundproofing requirements set by local standards.

TECHNICAL CHARACTERISTICS

Mapesilent Comfort is an insulating and soundproofing material made from high density, closed-cell foam polyethylene sandwiched to a special protective film.

Thanks to its low thickness, **Mapesilent Comfort** does not alter the overall design height of the floor and offers a simple, reliable system for making floating screeds that are perfectly insulated from the substrate (floor slab + dividing walls).

In order to prevent the formation of acoustic bridges, insulating systems made from **Mapesilent Comfort** also require the use of other

products from the range: **Mapesilent Band R** and **Mapesilent Tape**, as described below.

RECOMMENDATIONS

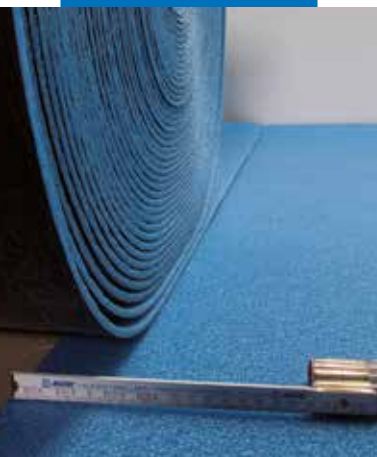
- Do not use this soundproofing system directly below the final floor covering (use **Mapesonic CR**).
- The thickness and, where required, the reinforcement required for the screed installed on top of **Mapesilent Comfort**, must be calculated according to the type of flooring to be installed and the stresses acting on the surface of the floor.

Preparation of the substrate

Check that the substrate is flat and that there are no rough spots. Any excess material which makes the surface uneven must be removed.

Uneven surfaces and areas where plant fittings (such as electric cables, pipework, etc.) pass through the substrate must be evened out before applying **Mapesilent Comfort**.

To make screeds and even out installation surfaces please refer to the specific catalogues which illustrate the various ranges of MAPEI products for the preparation of substrates or contact the MAPEI Technical Services Department.



Unroll a sheet of Mapesilent Comfort and place it at the base of the longest wall of the room. Unroll the next sheets and overlap each one by at least 5 cm to guarantee a continuous soundproofing layer



After checking that the sheets of Mapesilent Comfort are perfectly overlapped, seal all the overlaps using Mapesilent Tape

TECHNICAL DATA (typical values)

Test method	Technical characteristics	UOM	Value
EN 823	Thickness	mm	6
EN 12431	Compressibility (reduction in thickness when under load for a period of time)	–	< 8%
EN 12667	Thermal conductivity - λ	W/mK	0.04
EN 12086	Water vapour diffusion resistance factor - μ	–	> 2000
EN 29052-1	Dynamic stiffness for calculation purposes (S')	MN/m ³	50
EN ISO 10140-3	Reduction of impact noise from footsteps on a normalised floor slab (ΔL_w)	dB	18 (*)
EN ISO 12354-2	Calculated reduction of impact noise from footsteps (ΔL_w)	dB	23.5
EN ISO 12354-2	Calculated noise level index of impact noise from footsteps ($L'_{n,w}$)	dB	58 (**)
On-site measurement	Measured noise level index of impact noise from footsteps ($L'_{n,w}$)	dB	57 (**)

(*) measured in an independent laboratory on a 14 cm thick normalised reinforced concrete floor slab with a surface area of 10 m².

(**) calculate and measurement carried out on brick-cement slab (20+4 cm), lightweight screed (10 cm), cementitious screed (5 cm) and ceramic tiles.

APPLICATION PROCEDURE

Unroll the sheets of **Mapesilent Comfort** and overlap each roll at least 5 cm to guarantee a continuous soundproofing layer.

Seal all the joints between the rolls of **Mapesilent Comfort** with **Mapesilent Tape** (closed-cell foam polyethylene adhesive sealing tape).

The perimeter of the room to be soundproofed must be insulated using **Mapesilent Band R** (closed-cell foam polyethylene adhesive tape applied around the perimeter of walls and around any elements which pass through the screed, to avoid the formation of acoustic bridges).

Mapesilent Band R is available in pre-formed 100 mm and 160 mm wide profiles. The 160 mm version is mainly used for heated floors.

Seal all the joints between the various pieces of **Mapesilent Band R** and between **Mapesilent Band R** and

Mapesilent Comfort with Mapesilent Tape.

Once the final flooring has been installed, and immediately before attaching the skirting boards, trim the excess pieces of **Mapesilent Band R** and seal the gaps between the skirting boards and flooring with a suitable flexible sealant.

Do not install the system if the temperature is too high or too low, and in all cases, do not carry out any punching or cutting operations which could damage the soundproofing system.

PACKAGING

1.2 m wide x 42 m long rolls (50 m²).
Pallet with 8 rolls x 50 m².

STORAGE

24 months in its original packaging in a dry area away from direct sunlight, except for **Mapesilent Band R** and **Mapesilent Tape**, that may be stored for 9 months.

Do not stack the pallets on top of each other.

Contact with solvents or organic liquids may damage the product.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapesilent Comfort is an article and referring to the current European regulations (Reg. 1906/2007/CE - REACH) does not require the preparation of the material safety data sheet. During use it is recommended to wear gloves and goggles and follow the safety requirements of the workplace.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience,

all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

All relevant references for the product are available upon request and from www.mapei.com



Remove the protective film from the back of the Mapesilent Band R and apply around the perimeter of the room



At the corners of the room, cut the lower part of the Mapesilent Band R to form a 90° angle

Mapesilent Comfort



*Cut and apply
Mapesilent Tape in
all the corners and
around the blended-
in areas and overlaps
to guarantee that the
joints are perfectly
protected*