

MAPESILENT MAPESONIC CR

Soundproofing solutions
to combat impact noise on
wood and ceramic flooring





Mapesilent

Acoustic insulation system in sheets and panels for floating screeds.

Mapesilent is the low-thickness and easy to install performing system, available in rolls or panels.

WHERE TO USE

Soundproofing against impact noise from footsteps on all types of floors for the creation of floating screeds to install any type of flooring. It allows to meet law requirements and achieve the highest acoustic performance.

MAPESILENT ADVANTAGES

- High performance (ΔL_w up to 42 dB measured on site)
- Quick and easy application
- Resistant to impact loads and footsteps on site
- System may be designed using Mapei *DataMapesilent*
- May be combined with heated floors
- Helps earning LEED credits
- Very low emission of volatile organic compounds (VOC)



MAPESILENT ROLL TECHNICAL DATA

Format	10x1.05 m sheets
Thickness EN 29073-2	8 mm
Thermal resistance R	0.145 m ² K/W
Apparent dynamic stiffness (S' _t)	9 MN/m ³
Dynamic stiffness (S')	21 MN/m ³
Reduction of impact noise ΔL_w	37 dB (measured on site)
Noise level index of impact noise – L' _{n,w}	50 dB (measured on site)

MAPESILENT PANEL TECHNICAL DATA

Format	1x1 m panels
Thickness EN 29073-2	13 mm
Weight	5.0 kg/m ²
Thermal resistance R	0.313 m ² K/W
Dynamic stiffness (S')	13 MN/m ³
Reduction of impact noise ΔL_w	42 dB (measured on site)

MAPESILENT COMFORT TECHNICAL DATA

Format	4x1.2 m sheets
Thickness EN 29073-2	6 mm
Water vapour diffusion resistance factor μ	>2000
Thermal conductivity λ	0.04 W/mK
Dynamic stiffness (S')	50 MN/m ³
Noise level index of impact noise – L' _{n,w}	53 dB (measured on site)



Soundproofing system for laying large-format porcelain tiles



- 1 Concrete substrate
- 2 Vapour barrier
- 3 Soundproofing membrane **MAPESILENT ROLL**
- 4 Soundproofing band **MAPESILENT BAND R**
- 5 Soundproofing tape **MAPESILENT TAPE**
- 6 Heating system
- 7 Cementitious screed **TOPCEM PRONTO**
- 8
- 9
- 10
- 11
- 12
- 13



- 8** Adhesive **ULTRALITE SI FLEX ZERO**
- 9** Uncoupling, anti-fracture membrane **MAPEGUARD UM 35**
- 10** Adhesive **ULTRALITE SI FLEX ZERO**
- 11** Ceramic tiles
- 12** Grouting **ULTRACOLOR PLUS**
- 13** Sealant **MAPEFOAM + MAPESIL AC**



Installation of wooden flooring on soundproofing system against impact noise



1 Concrete substrate

2 Soundproofing membrane **MAPESILENT ROLL**

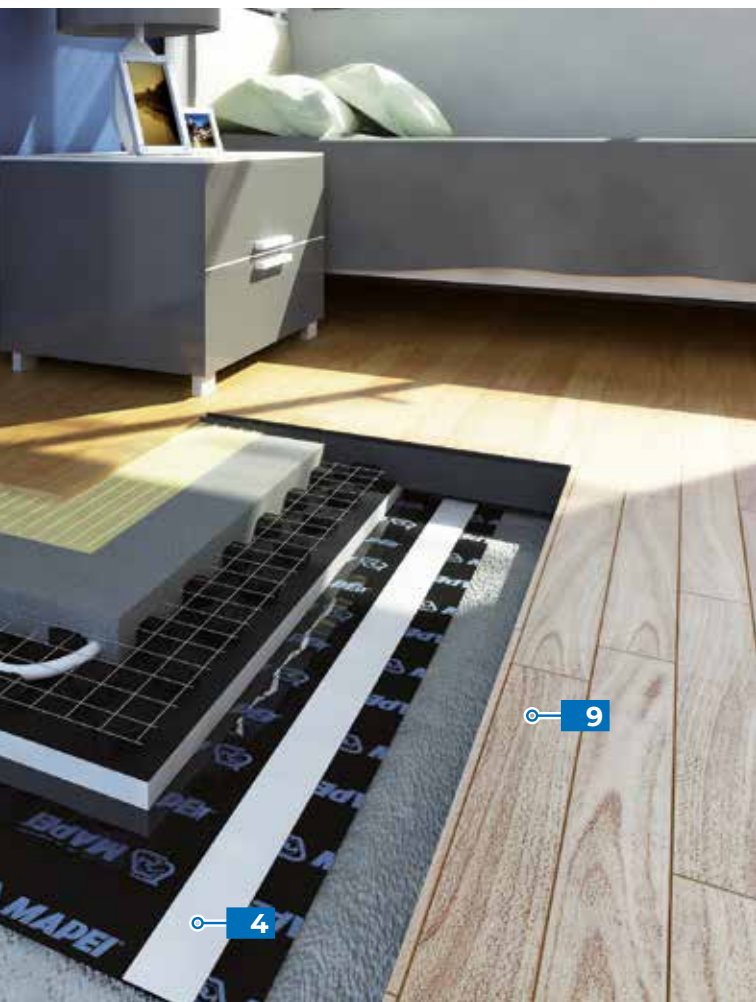
3 Soundproofing band **MAPESILENT BAND R**

4 Soundproofing tape **MAPESILENT TAPE**

5 Uncoupling membrane

6 Underfloor heating system

7 Screed **MAPECEM PRONTO**



8 Adhesive **ULTRABOND ECO S955 1K**

9 Pre-finished, solid, brushed wooden flooring

10 Adhesive **ULTRABOND S997 1K**

11 Sealant **SILWOOD**



Rapid soundproofing system for laying wooden flooring



- 1 Concrete substrate
- 2 Soundproofing membrane **MAPESILENT COMFORT**
- 3 Soundproofing band **MAPESILENT BAND R**
- 4 Soundproofing tape **MAPESILENT TAPE**
- 5 Uncoupling membrane
- 6 Screed **TOPCEM PRONTO**
- 7 Adhesive **ULTRABOND ECO P909 2K**



5

2

1

8 Industrial parquet

9 Water-based binder for grouting **ULTRACOAT AQUA PLUS**

10 Two-component water-based undercoat **ULTRACOAT PREMIUM BASE**

11 Two-component water-based polyurethane lacquer **ULTRACOAT HT 2K**
(2 coats)

12 Adhesive **ULTRABOND S997 1K**

13 Sealant **SILWOOD**



Mapesonic CR

Underfloor soundproofing system with very low emission of volatile organic compounds (EMICODE EC1 PLUS).

Mapesonic CR is the innovative, performing system in low-thickness sheets made from cork and recycled rubber granules.

WHERE TO USE

Soundproofing against impact noise in existing floors.

Mapesonic CR may be applied over cement-based substrates and old ceramic or natural stone floors before laying ceramic, stone material, multi-layered, floating and laminated wood and resilient floorings.

MAPESONIC CR ADVANTAGES

- Uncoupling system with anti-fracture properties
- Excellent soundproofing properties
- May be used without removing the existing floor
- Low thickness (2 and 4 mm)
- May be applied over heated floors
- Suitable for all the main flooring materials
- No need for special adhesives
- Eco-compatible (recycled and recyclable raw materials)
- Very low emission of volatile organic compounds (VOC)
- Helps earning credits for the LEED certification



MAPESONIC CR TECHNICAL DATA

Thickness	2 millimeters	4 millimeters
Size	20x1 m	10x1 m
Thermal resistance R	0.024 m ² K/W	0.048 m ² K/W
Elongation at break EN 37 ISO 1798	20%	
Tensile strength EN ISO 1798	0.6 N/mm ²	
Reduction of impact noise ΔL_w	18 dB (with bonded flooring)	



System for overlaying existing flooring



1 Existing flooring

2 Adhesive **ULTRABOND ECO S955 1K**

3 Soundproofing membrane **MAPESONIC CR**
+ perimeter strip **MAPESONIC STRIP**

4 Adhesive **KERAFLEX MAXI S1 ZERO**

5 New ceramic flooring

6 Grout **ULTRACOLOR PLUS**



8 Sealant **MAPESIL AC**

EVERYTHING'S OK, WITH MAPEI

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