

## VERMASPHA

**VERMASPHA** is made of calibrated and exfoliated vermiculite grains by heat treatment and coated with bitumen.

### User application

**VERMASPHA** is bulk insulation to be compacted, used for levelling existing floors or as acoustic insulation according to Code of practice DTU 51.3 (floors made of wood or wood-based panels).

### Composition

VERMASPHA	
Exfoliated vermiculite	Grain with 5mm diameter maximum
Coating of the flakes	Bitumen

### Packaging

VERMASPHA	
Labelling	Each bag is identified by printed manufacturing code for production batch traceability
Packaging	Grains are packed in 50 litres plastic bags, on non-stackable wrapped pallet Weight of the bag: $6.75 \pm 0.75$ kg Each pallet is composed of 33 bags
Storage	Upright protected from bad weather and sunshine Service life: 10 months from manufacturing date

### Characteristics

Additional characteristics	Performances	Technical specifications
Thermal conductivity	0.076 W/(m.K)	EN 1602
Granular class	0/5	EN 933-1
Density of the compacted product	250 to 300 kg/m <sup>3</sup>	-
Acoustic insulation (over 22 mm CTBH wood particleboard flooring and below an additional 22 CTBH wood particleboard flooring)  CTBH complies with EN 312-P5	<ul style="list-style-type: none"> <li><b>Velaphone Fibre 22 + VERMASPHA 3 cm thick</b> <math>\Delta(L_{nw}) = 21</math> dB <math>R_w (C ; C_{tr}) = 47 (-3 ; -9)</math> dB</li> <li><b>VERMASPHA 8 cm thick</b> <math>\Delta(L_{nw}) = 17</math> dB <math>R_w (C ; C_{tr}) = 46 (-1 ; -5)</math> dB</li> </ul>	EN ISO 10140-3/ EN ISO 717-2  EN ISO 10140-2/ EN ISO 717-1

Class of volatile substances emission in the indoor air	<b>A +</b>
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## Installation

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**VERMASPHA** is a solution described in Code of practice DTU 51.3 for levelling and/or floating wooden floors. When it is poured, the compacted area of **VERMASPHA** is covered with a floating wooden floor.

Application temperature of **VERMASPHA** is between 5°C and 40°C. When temperature of the product or of the room is between +5°C and over +40°C, the room or the product must be kept during 24 hours between +5°C to +40°C before application.

**VERMASPHA** is used to create shapes, 12 cm maximum total thickness and applied in several successive layers up to 5 cm each.

Wooden floor must be prepared with a minimum of 2 wedging rulers, height adapted to the final thickness for the levelling and/or floating wooden floors increase by one third.

**VERMASPHA** is poured on the floor, any clumps will be unpacked by using a rake.

**VERMASPHA** is then distributed with a rake over the existing wooden floor between the two wedging rulers.

**VERMASPHA** is now levelled with a ruler. Then **VERMASPHA** is compacted on the surface, about one third of its surface, with a rammer and its rammer shoe or with a steamroller for big surface.

Wedging rulers are removed and spaced are closed with **VERMASPHA** also compacted.

When **VERMASPHA** is compacted, wooden spacers used under the particleboard flooring to make a floor are installed over the **VERMASPHA** form. 19 mm wood particleboard CTBH or 15 mm thickness minimum OSB, are used over **VERMASPHA** form with a minimum of 5 mm peripheral space between panels and vertical sides, door frames or floor penetrations.

Floor covering applied over wood particleboard must comply with Code of practice DTU 51.3.

Consumption: 1 bag => 3 to 3.5 m<sup>2</sup> form with 1 cm or 1 m<sup>2</sup> surface form with 3 to 3.5 cm compacted **VERMASPHA**.

32 bags = 20 m<sup>2</sup> form with 5 cm thickness of compacted **VERMASPHA**.

## Special indications

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### Hygiene, health and environment:

**VERMASPHA** is not classified as dangerous according to French and European regulations.

For further information, please refer to relevant Safety Data Sheet, including Personal Protection Equipment (PPE) to wear.

Regarding product residue: non-hazardous waste - reuse or stocked in a storage facility for non-hazardous waste (ISDND – Dump class II).

### Traceability:

Traceability of the product is managed with a manufacturing code: YY / N / DDD  
Year / Production team / Calendar day

### Integrated Management System QSE:

**VERMASPHA** is manufactured and controlled under an integrated management system **Quality (ISO 9001), Environmental (ISO 14001) and Health-Safety (OHSAS 18001)** certified.