



# VERMASPHA

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

## User application

**VERMASPHA** is used as compactable loose-fill insulation intended to restore the flatness or provide acoustic insulation for old floors according to Code of practice DTU 51.3 (floors made of wood or wood-based panels).

## Composition

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

## Packaging

	VERMASPHA
Labelling	Each bag is identified by a manufacturing code for production batch traceability
Packaging	The granules are packaged in 50-liter plastic bags, grouped on non-stackable shrink-wrapped pallet Bag weight: 6.75 ± 0.75 kg Each pallet contains 50 bags
Storage	On a flat surface, protected from the weather Product usage duration: 10 months from the manufacturing date

## Characteristics

Additional characteristic	Performance	Technical specification
Thermal conductivity	0.076 W/(m.K)	EN 1602
Granular class	0/5	EN 933-1
Compacted product bulk density	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> Δ(L<sub>nw</sub>) = 21 dB R<sub>w</sub> (C ; C<sub>tr</sub>) = 47 (-3 ; -9) dB</li> <li>• <b>VERMASPHA 8 cm thick</b> Δ(L<sub>nw</sub>) = 17 dB R<sub>w</sub> (C ; C<sub>tr</sub>) = 46 (-1 ; -5) 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	A +
---	-----



## Installation

---

**VERMASPHA** is a solution described in Code of practice DTU 51.3 for levelling and/or decoupling 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. If the temperature of the product or of the room is between +5°C and over +40°C, the room or the product must be stabilized for at least 24 hours within the +5°C to +40°C range before application.

**VERMASPHA** is applied in layers to create shapes, with a maximum height of 12 cm, applied by successive layers of a maximum thickness of 5 cm.

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 onto the floor, any clumps broken up by using a rake.

**VERMASPHA** is then spread with a rake between the two wedging rulers.

**VERMASPHA** is now levelled with a ruler. Then **VERMASPHA** is then compacted on the surface by about one-third of its height, with a tamper plate and rammer shoe or with a steamroller for large areas.

The wedging rulers are removed, and the gaps filled with **VERMASPHA**, which is also compacted.

Once **VERMASPHA** is compacted, wooden spacers used under the particleboard flooring to make a floor are installed over the **VERMASPHA** form. CTBH wood particleboard 19 mm or OSB 15 mm minimum, are used over **VERMASPHA** form leaving a peripheral gap of at least 5 mm between the wood 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 ⇒ covers 3 to 3.5 m<sup>2</sup> with 1 cm or 1 m<sup>2</sup> surface with 3 to 3.5 cm compacted **VERMASPHA** layer.

32 bags ⇒ cover 20 m<sup>2</sup> of a 5 cm thick compacted **VERMASPHA** layer.

## Special indications

---

### Hygiene, health and environment:

**VERMASPHA** is not classified as dangerous according to CLP regulation. However, it generates dust. Please refer to the occupational exposure recommended values and protect users accordingly (P1 filter mask recommended).

About product remnants or batch remains: inert waste - reuse, or disposal in an Inert Waste Storage Facility (ISDI - Class III landfill).

### Traceability:

Product traceability is ensured using 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.**