



Expanded cork granules

Material Data Sheet

Material Description & Properties

Expanded cork granules are a 100% natural by-product obtained during the production of Expanded Insulation Corkboard. They provide a lightweight filling solution with acoustic properties, suitable for use in screeds, flooring and interior cavity walls.

Advantages

- 100% natural
- Excellent thermal and acoustic insulation
- Lightweight material
- High durability
- Biodegradable, renewable and recyclable
- Negative carbon footprint (EPD number HUB-0280)

Product specifications

- Packaging: 250 / 500 L bags and 3000 L big bags
- Thermal conductivity: 0.041 W/m·K
- Reaction to fire: Euroclass E

Granule size (mm)	Density
0-1 1-3	$\geq 65 \text{ kg/m}^3$ $\leq 85 \text{ Kg/m}^3$
2-4 3-5 3-10 5-10	$\geq 60 \text{ kg/m}^3$ $\leq 70 \text{ Kg/m}^3$
3-15 5-15	$\geq 60 \text{ kg/m}^3$ $\leq 80 \text{ Kg/m}^3$



Mixing formulas/screed filling

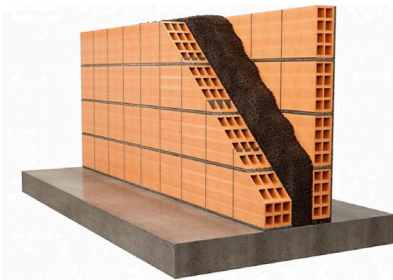
Product	M150	M250	M400
Cement (Kg/m)	151,44	254,63	400,02
Sand (Kg/m)	377,67	358,25	339,84
Expanded cork granules 3/10mm (Kg/m)	60,93	53,33	58,42
Water (L/m)	81,36	138,80	202,22

Technical characterization

Product	M150	M250	M400
Density after 28d	430 Kg/m ³	740 Kg/m ³	1060 Kg/m ³
Mechanical strength after 28d	0,111 MPa	0,545 MPa	2,234 MPa
Thermal conductivity coefficient of the mixture	$\lambda=0,209$ W/m°C	$\lambda=0,215$ W/m°C	$\lambda=0,319$ W/m°C
Reducing flooring impact noise (thickness 4,5cm)	22 dB	18 dB	20 dB

Application systems

Cavity walls and floors



Screed filling



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