

LIGHTWEIGHT CONCRETE

LIGHTWEIGHT CONCRETE - SCREED FILLING



AMORIM

AMORIM ISOLAMENTOS, S.A.



NOT CONTRACTUAL PHOTO

ADVANTAGES

1. Excellent thermo-acoustic system performance
2. Excellent mechanical strength
3. Dimensional stability of the material
4. High durability without loss of features
5. Healthier natural product
6. Comfort with healthy insulation
7. Allows energy savings
8. Long term effectiveness

100%
NATURAL
CHOICE

EXPANDED
INSULATION
CORKBOARD IS
A SUSTAINABLE
MATERIAL FOR
A SUSTAINABLE
INSULATION

LIGHTWEIGHT CONCRETE

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- SCREED FILLING



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SOLUTION DESCRIPTION

Screed Filling (lightweight concrete) with Expanded Cork Granules, giving it thermal and acoustic insulation properties.

TECHNICAL FEATURES

Good acoustic properties

Gives lightness to the concrete

Density: 60 to 70 kg/m³

Thermal conductivity: $\lambda = 0.040 \text{ W / m } ^\circ \text{C}$

Economic and easy to apply

M150:

Density after 28d: 430 kg/m³

Mechanical strength after 28d: 0.111 MPa

Thermal conductivity coefficient of the mixture:

$\lambda = 0.209 \text{ W / m } ^\circ \text{C}$

Reducing flooring impact noise (thickness 4.5 cm): 22 dB

M250:

Density after 28d: 740 Kg/m³

Mechanical strength after 28d: 0,545 MPa

Thermal conductivity coefficient of the mixture: $\lambda = 0,215 \text{ W/m}^\circ\text{C}$

Reducing flooring impact noise (thickness 4.5 cm): 18 dB

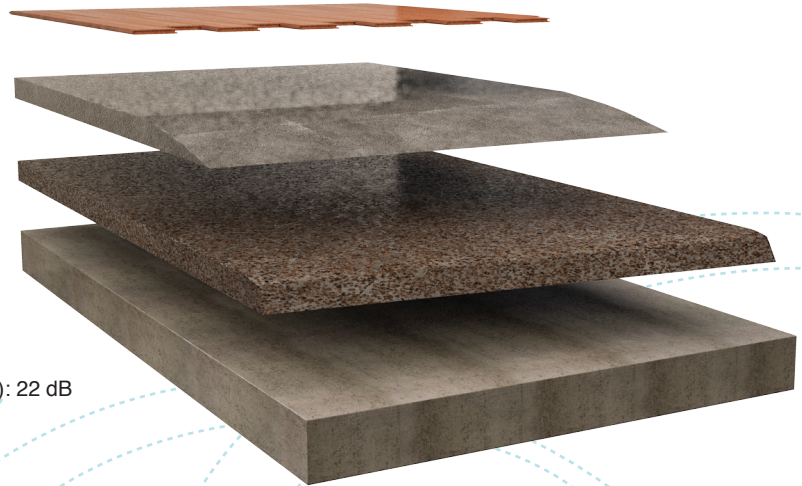
M400:

Density after 28d: 1060 Kg/m³

Mechanical strength after 28d: 2,234 MPa

Thermal conductivity coefficient of the mixture: $\lambda = 0,319 \text{ W/m}^\circ\text{C}$

Reducing flooring impact noise (thickness 4.5 cm): 20 dB



ENVIRONMENTAL FEATURES

- 100% RECYCLING OF PRE AND POST-CONSUMER WASTE
(NO VIRGIN RAW MATERIALS)

PRODUCT DIMENSIONS

Granules size: 3/10 mm (possible other calibers)

	M150	M250	M400
Cement (Kg/m³)	151,44	254,63	400,02
Sand (Kg/m³)	377,67	358,25	339,84
Expanded Cork Granules 3/10 mm (Kg/m³)	60,93	53,33	58,42
Water (Lt/m³)	81,36	138,80	202,22



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RECOMMENDATIONS FOR APPLICATION

Incorporate Expanded Cork Granules in the mortar mixer, pre-moistened

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