EXPANDED CORK GRANULES
LIGHTWEIGHT CONCRETE (SCREED FILLING)

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
EXPANDED CORK GRANULES
LIGHTWEIGHT CONCRETE
(SCREED FILLING)

SOLUTION DESCRIPTION
Scree 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: \( \lambda = 0.040 \, \text{W} / \text{m} \cdot \text{°C} \)
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: \( \lambda = 0.209 \, \text{W} / \text{m} \cdot \text{°C} \)
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: \( \lambda = 0.215 \, \text{W/m°C} \)
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: \( \lambda = 0.319 \, \text{W/m°C} \)
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)

<table>
<thead>
<tr>
<th></th>
<th>M150</th>
<th>M250</th>
<th>M400</th>
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</thead>
<tbody>
<tr>
<td>Cement (Kg/m³)</td>
<td>151.44</td>
<td>254.63</td>
<td>400.02</td>
</tr>
<tr>
<td>Sand (Kg/m³)</td>
<td>377.67</td>
<td>358.25</td>
<td>339.84</td>
</tr>
<tr>
<td>Expanded Cork Granules 3/10 mm (Kg/m³)</td>
<td>60.93</td>
<td>53.33</td>
<td>58.42</td>
</tr>
<tr>
<td>Water (Lt/m³)</td>
<td>81.36</td>
<td>138.80</td>
<td>202.22</td>
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RECOMMENDATIONS FOR APPLICATION
Incorporate Expanded Cork Granules in the mortar mixer, pre-moistened