



# GECO ADDITIVE

LIQUID ADDITIVE FOR THE CREATION OF  
MACROPOROUS DEHUMIDIFYING MORTARS

GECO ADDITIVE							
Liquid additive for the creation of macroporous dehumidifying mortars							
<b>PRODUCT</b>	Liquid additive for the preparation of dehumidifying and renovating mortars.						
<b>PACKAGING AND STORAGE</b>	<ul style="list-style-type: none"> <li>· 1 kg bottle.</li> <li>· Box with 10 bottles.</li> <li>· Pallet with 10 boxes.</li> <li>· Store in the original intact packaging, in a dry and fresh place, away from frost, heat sources and direct sunlight.</li> </ul>						
<b>FIELDS OF APPLICATION</b>	<ul style="list-style-type: none"> <li>· Dehumidification of masonry affected by rising damp.</li> <li>· High breathability plasters.</li> <li>· Mortars for renovation.</li> <li>· Elimination of surface condensation, mildew and efflorescence.</li> </ul>						
<b>ADVANTAGES</b>	<ul style="list-style-type: none"> <li>· Non-toxic and non-corrosive.</li> <li>· It allows to realize macro-porous mortars, increasing the evaporation speed of the humidity contained in the masonry, bringing a high air flow in the plaster.</li> <li>· It can be used with every kind of mortar (cement, cement + lime, lime).</li> </ul>						
<b>RECOMMENDATIONS</b>	<ul style="list-style-type: none"> <li>· Mixing and preparation of the mortar: <i>see pg. 2</i>.</li> <li>· The plaster mixed with Geco Additive can be applied according to the standard application techniques, in two or more coats for higher thickness. In case of pre-existing plasters, they must be removed and the masonry must be properly clean.</li> <li>· In case of salt into the masonry, before the application of the plaster, use the inhibitor Geco Antisalt.</li> <li>· The porous structure of the mortar allows to obtain a smooth and homogeneous surface, that can be covered after 15 - 20 days with lime-based paints or mineral finishing suitable for dehumidification and renovation cycles.</li> <li>· Add Geco Additive also in the fine mortar, used for the finishing coat.</li> </ul>						
<b>WARNINGS</b>	Do not apply with temperatures under +5 °C.						
<b>TECHNICAL CHARACTERISTICS</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Resistance to water vapour diffusion <math>\mu</math> of the mortar mixed with Geco Additive:</td> <td style="width: 40%; text-align: center;">10,5</td> </tr> <tr> <td>Thermal conductivity <math>\lambda_{10, dry, mat}</math> of the mortar mixed with Geco Additive in accordance with UNI EN 1745:</td> <td style="text-align: center;">0,53 W/mK</td> </tr> </table>	Resistance to water vapour diffusion $\mu$ of the mortar mixed with Geco Additive:	10,5	Thermal conductivity $\lambda_{10, dry, mat}$ of the mortar mixed with Geco Additive in accordance with UNI EN 1745:	0,53 W/mK		
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<b>COMPARISON WITH THE TRADITIONAL MORTARS</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Improvement of the resistance to water vapour diffusion <math>\mu</math> compared to the traditional mortars, in accordance with UNI EN 1745:</td> <td colspan="2" style="text-align: center;">15/35 for mortars with densities 1600 ÷ 2000 kg/m<sup>3</sup></td> </tr> <tr> <td>Improvement of the thermal insulation level compared to traditional mortars, in accordance with UNI EN 1745:</td> <td style="text-align: center;">approx. 35% for mortars with density 1800 kg/m<sup>3</sup></td> <td style="text-align: center;">approx. 52% for mortars with density 2000 kg/m<sup>3</sup></td> </tr> </table>	Improvement of the resistance to water vapour diffusion $\mu$ compared to the traditional mortars, in accordance with UNI EN 1745:	15/35 for mortars with densities 1600 ÷ 2000 kg/m <sup>3</sup>		Improvement of the thermal insulation level compared to traditional mortars, in accordance with UNI EN 1745:	approx. 35% for mortars with density 1800 kg/m <sup>3</sup>	approx. 52% for mortars with density 2000 kg/m <sup>3</sup>
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<p>All the indications provided in this technical data sheet are purely approximate and not binding for legal purpose. The data listed has been gathered from laboratory tests and it hence follows that in practical applications on building sites the final characteristics of the products may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check suitability of the product for its specific use, undertaking all liability implicit in and deriving from use of the product, as well as comply with all methods and instructions for use generally referable to "workmanlike" execution. Edilteco S.p.A. reserves the right to change the contents of this mechanical data sheet on its final judgements. The spreading of this data sheet through any media, supersedes and cancels the validity of any other technical data sheet previously published.</p>							



Edilteco S.p.A. Via dell'Industria, 710 . 41038 San Felice sul Panaro (MO) Italy . Ph. +39 0535 82161 . Fax +39 0535 82970  
www.edilteco.com | info@edilteco.com

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METHOD OF USE

1. In a container with 25 - 30 L of clean water, mix 1 kg (1 bottle) of Geco Additive. **NB:** the amount of water may vary according to the humidity level of the sand.



2. Pour the obtained solution (water + Geco Additive) into the empty cement mixer.



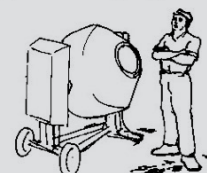
3. With the working cement mixer add approx. 150 L of clean sand and mix.



4. Add 50 kg of water binders. *Recommended dosage:* 25 kg cement + 25 kg lime. **NB:** Geco Additive can be also used with mortars composed of cement or lime.



5. Mix for approx. 10 minutes. **NB:** it is very important to respect the mixing time in order to obtain a perfect dehumidifying mortar.



6. Lay the plaster on a clean wall. **NB:** Respect the standard thickness for the dehumidification cycles. *Example:*  
 · Minimum thickness 2 cm on masonry up to 25 cm.  
 · Minimum thickness 3,5 cm on masonry up to 40 cm.



Alternatively, it is possible to obtain a foam, increasing the volume of the water / Geco Additive, solution, mixing the liquid in a clean container with the electrical drill with deflocculating blades. After a few minutes of mixing, the foam can reach a volume 3 - 4 bigger than the initial volume, especially if it is obtained with water over +15 °C. The mixing procedure continues adding the foam into the cement mixer and then the prescribed quantities of water binders and sand.