

Diathonite Acoustix⁺

Fiber-reinforced, ecological, sound absorbing and breathable mortar with improved sound absorption capacity (such as **Diathonite Acoustix⁺**) formulated with natural raw materials such as cork (grain size 0-3 mm | 0 - 0.12 in), clay, diatomaceous earth powder and hydraulic binder. Characterised by high sound absorbing power, it eliminates reverberation and reduces reflected noise. Designed for application on special guides, flat or curved, vertical and horizontal surfaces. The porosity that characterises its structure and the presence of natural hydraulic lime also make the plaster bacteriostatic and anti-mould. Pre-mixed product packaged in bags, which benefits from double CE marking (EN 998-1, EN 998-2) and contributes to LEED[®] credits. Minimum required characteristics: Thermal Conductivity (λ) 0,075 W/mK; Vapour permeability Coefficient $\mu=4$; Compressive strength 4.0 N/mm² | 580.51 lbf/in² (psi); Flexural strength 1.6 N/mm² | 232.06 lbf/in² (psi); Adhesion onto the support (brick) 0.252 MPa=N/mm²; Reaction to fire – Class A1; Noise Reduction Coefficient (NRC) = 0.75, for a thickness 3 cm / 1.18 in; Sound absorption average (SAA) = 0.72, for a thickness 3 cm / 1.18 in; Single value of sound absorption (α_w) 0.75, for a thickness 3 cm / 1.18 in; Sound absorption class – C, for a thickness 3 cm / 1.18 in; Acoustic absorption between 600 and 1500 [Hz] = $\alpha > 70$, for a thickness 3 cm / 1.18 in; Increase in the Sound Insulation Rating Index (R_w) compared to traditional plaster – 3 dB.

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