



Clay based plaster with improved thermal conductivity

Name of product	E14 /+2		
Function of product	Base coat plaster		
Form	loose, damped (natural earth moisture), ready-to-use mixture		
Raw Material	Natural earthen clay; pumice; brick powder; Straw 10mm; cellulose fiber		
Properties			
Property	Unit	Value	Test methods/standardisation
Chemical/physical properties			
Bulk density	kg/m ³	1045	EN 1015-10:1999
Composition of materials			
Structures and construction			
Dimensions of product	m	n.a	
Mechanical properties			
Compressive strength	N/mm ²	1.78	EN 1015-11:1999
Flexural strength	N/mm ²	0.67	EN 1015-11:1999
Tensile strength	N/mm ²		
Shrinkage	mm/m	<1%	DIN 18947
Thermal properties			
Thermal conductivity	W/(m·K)	0.22	EN 1745:2002
Specific heat capacity	J/(g·K)	848	EN 12664:2001
Hygrothermal properties			
Water vapour diffusion resistance factor			
Moisture buffer value	kg/(m ² ·%RH)	0.045	EN 1015-19; EN ISO 12571:2013
Water vapour permeability	kg/(m·s·Pa)		
Acoustic properties			
Sound absorption coefficient	%		
Sound reduction index	dB		
Fire Safety			
Reaction to fire			
Resistance to fire	Minutes	20	ISO 834 and BS EN 1363-1
Environmental properties			
Embodied energy (% renewable)	MJ/kg	0.27 (30%)	EN 15804
GHG emissions	kg CO ₂ eq	0.01	EN 15804
TVOC (SVOC)	µg/m ³	3	ISO 16000-9
Activity Concentration Index	l	≤ 1	DIN 18947; EU RP 112
Photocatalytic capacity			