

Technical Data Sheet

ACE ARTFOAM ECO 50

DESCRIPTION

ACEARTFOAMECO 50 is a system of rigid polyurethane foam of two components (polyol+isocyanate). It's free of ozone -layer damaging substances, as well as fluorinated greenhouse gases. (Doesn't contain HFCs, HCFCs, VOCs, etc...). The manufactured foam is 100% recyclable by mechanic means respect of the environment. A gas capturing system is not required for its recycling and/or destruction. It does not contain hazardous substances considered hazardous waste in construction and demolition. The expansion agent is water. The heat transfer coefficient λ remains invariable from its laying and all through the product shelf life. It doesn't contain fibers or bio-hazard products or susceptible of being so.

USES

ACE ARTFOAM ECO 50 it's a product indicated for thermal insulation by direct spraying over the support in applications such as vertical parameters, and roof interiors, not subjected to permanent weight. Applied on fakades it provides water impermeabilization, maintaining certain perspiration of the constructive solution.

PRODUCT PRESERVATION

The components must be kept between 10 and 25°C, protected from the entrance of humidity at all times. In appropriate storage condition and in its original containers, the optimal term for its use is 3 months for polyol and 6 months for isocyanate, from the moment of its manufacturing.

USE CONDITIONS

Mixture relation (Polyol : Isocyanate)	100 : 100 in volume / 100 : 108 in weight
Temperature of the components	30 – 60 °C
Working pressure	60 – 120 Bar
Room temperature	0 a +40 °C
Room temperature	< 90 %
Speed of wind	< 30 km/h
Temperature of the support	0– 40 °C
Temperature of the support	Without superficial condensations

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INFORMATION RELATED TO COMPONENTS AND REACTIVITY (at 25 °C):

	POLYOL	ISOCYANATE	Method / Norm
Hydroxyl Index	200 – 250 mg KOH	-	DIN-53240-2
Viscosity	300-600 mPas.	180-250 mPas.	INT-IT-17
NCO content	-	30-32 %	INT-IT-19
Cream time	4 +/-1 segundos		EN 14315-1:2013
Thread time	10 +/-1 segundos		EN 14315-1:2013
Free rise density	42 gramos/litro		EN 14315-1:2013

FOAM PROPERTIES AND CEE MARKING

Code of designation:	PU EN 14315-1-CCC4-CT4 (20)-GT10(20)-TFT12(20)- FRB42(20)	
Applied density	48-55 gr/l	(UNE EN 1602)
Conductividad térmica	See table of performance 0,031 W/mK in all densities	(UNE-EN 12.667)
Reacción al fuego	Class E (valid for all densities)	(UNE-EN 13823:2002)

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PERFORMANCE TABLE

Type of coating: None or open to diffusion		
thickness	Thermal conductivity aged declared λ_o W/m·K	Level of thermal resistance R_o M ² ·K/W
30 mm	0,031	1,00
35 mm	0,031	1,15
40 mm	0,031	1,30
45 mm	0,031	1,45
50 mm	0,031	1,60
55 mm	0,031	1,70
60 mm	0,031	1,95
65 mm	0,031	2,10
70 mm	0,031	2,25
75 mm	0,031	2,40
80 mm	0,031	2,60
85 mm	0,031	2,75
90 mm	0,031	2,90
95 mm	0,031	3,05
100 mm	0,031	3,25
105 mm	0,031	3,40
110 mm	0,031	3,55
115 mm	0,031	3,70
120 mm	0,031	3,85
125 mm	0,031	4,05
130 mm	0,031	4,20
135 mm	0,031	4,35
140 mm	0,031	4,50
145 mm	0,031	4,70
150 mm	0,031	4,85
155 mm	0,031	5,00
160 mm	0,031	5,15
165 mm	0,031	5,30
170 mm	0,031	5,50
175 mm	0,031	5,65
180 mm	0,031	5,80
185 mm	0,031	5,95
190 mm	0,031	6,15
195 mm	0,031	6,30
200 mm	0,031	6,45

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