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PERFORMANCE DATA SHEET

AT Termo Open

Description:

Protection against frost penetration and surface condensation of water vapor, as well as when solving the problem of thermal bridges and as a surface finish with antibacterial properties. The product is stable, has high adhesion to most building materials. It is ecological and safe for health, which allows it to be used both indoors and outdoors. The product can be dyed in any color or covered with water-based paint.

Application:

It is used to make both external and internal thermal insulation and protective coating in such facilities as:

- rooms with high air humidity at risk of mold and fungus,
- public utility facilities, hospitals, medical clinics and various types of surgeries,
- historic buildings where wool or polystyrene cannot be used due to the complex shape of the façade,
- partitions made of brick, plaster or concrete,
- elements made of wood.

Advantages of the AT Termo Open coating:

- a wide range of applications, including in industries such as construction, industry and transport,
- easy application with a brush, roller or paint sprayer,
- low labor cost compared to traditional insulation,
- the coating has fungicidal properties,
- it is ecological, it is enough to use water to dilute the coating and clean the tools,
- no aging effect of the material, which guarantees constant insulation parameters,
- the possibility of quick and efficient repair in the event of spot damage in the insulation,
- eliminates thermal bridges and provides insulation parameters with the same values over the entire surface.

Properties summary

Tested parameter	Test method	Additional information	Requirements acc. PN-C 81907:2003, type I	Result
Density, [g/cm^3]	PN-EN ISO 2811-1:2016-04	-	-	0,48-0,63
Flowability, [degree]	PN-C 81507:1989	-	At least 4	0*
Ability to dilute with water	PN-C 81913:1998	-	Total	Total
Coating drying time, [h]	PN-C-81519:1979	T = (23±2)°C RH = (50±5)%	3 degree No more than 12h	1
Hiding power	PN-C-81536:1989 method C	-	No more than III	III
Appearance and color of the coating	PN-C 81907:2003 p. 4.5	-	-	uniform, without wrinkles and stains; white color
Coating gloss, [%]	PN-EN ISO 2813:2014-11	Determined at the measurement angle of 60° for matte coatings	No more than 10	2,3 (matte coating)
Resistance of the coating to peeling off from the substrate, [degree]	PN-EN ISO 2409:2013-06	Multi-blade device with a blade spacing of 3mm	No more than 1	1
Coating resistance to water, [degree]	PN-EN ISO 2812-4:2008, met. A, PN-ISO 4628-1:1999	T = (23±2) °C t = 48 h	Acceptable uniform destruction of the coating No more than 1	0
Total Solar Reflection (TSR), [%]	ASTM E903	-	-	90,04
Content of Volatile Organic Substances (VOC), [g/l]	PN-EN ISO 11890-2:2013-06	-	No more than 30	4,5
Thermal conductivity coefficient λ [W/(mK)]	EN 12897:2006 (D)	-	-	0,00153 for T = 20°C
Microbiological testing				
Evaluation of antimicrobial activity	Staphylococcus aureus ATCC 25923		Antibacterial efficacy (ABE)	99,39%
	Escherichia coli ATCC 25922		Antibacterial efficacy (ABE)	99,99%
	Klebsiella pneumoniae ATCC 700608		Antibacterial efficacy (ABE)	99,99%
	Candida albicans ATCC 10231		Antifungal efficacy (AFE)	99,81%

*specificity of the product

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