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PERFORMANCE DATA SHEET

AT Termo

Description:

Protection against frost penetration and surface condensation of water vapor, as well as in 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 its use during outdoor and indoor work. The product can be dyed in any color or covered with paint based on water dispersion.

Application:

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

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

Advantages of AT Termo coating:

- a wide range of applications, including sectors such as construction, industry or transport,
- easy application with a brush, roller or paint aggregate,
- 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 wash tools,
- no aging effect of the material, which guarantees constant insulation parameters,
- the possibility of quick and efficient repair in the event of point damage in the insulation made,
- eliminates thermal bridges and provides insulation parameters of the same values over the entire surface.



Properties summary

Test parameter	Test method	Additional information	Requirements	Result	
Density, [g/cm ³]	PN-EN ISO 2811-1:2016-04	-	-	0,68-0,74	
Dilution capacity with water	PN-C 81913:1998	-	Complete	Complete	
Coating drying time, [h]	PN-C-81519:1979	T = (23±2)°C RH = (50±5)%	3 degree No more than 12h	1	
Qualitative mating	PN-C-81536:1989 method C	-	Not more than III	III	
Appearance and color of the coating	PN-C 81907:2003 Q. 4.5	-	-	Uniform, wrinkle-free, white	
Coating gloss, [%]	PN-EN ISO 2813:2014-11	Determined at a measuring angle of 60° for matt coatings	No more than 10	2.3 (matt coating)	
Adhesion to the ground	PN-EN 1542:2000	-	>= 0.3 MPa	0.7 ± 0.2 MPa	
Water resistance of the coating, [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	
Wet scrubbing resistance of the coating, [µm]	PN-EN ISO 11998:2007	Loss of thickness µm after 200 scrubbing cycles	No more than 70	14	
Peel-off adhesion of the coating [MPa]	PN-EN ISO 4624:2004	Average results	-	In phase zero	1,33
				After 12 cycles	3,33
				After 48 cycles	3,42
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	
Fire reaction test	PN-EN ISO 11925-2:2011	Classification according to PN-EN ISO 13501	-	Class B	
Water vapour permeability for coatings on the carrier	PN-EN ISO 7783:2018	V ₁	>150 g/(m ² *d)	212.2 ± 15.0 g/(m ² *d)	
Water absorption	PN-EN 1062-3:2008	W ₃	<= 0,1 kg/(m ² *24 ^{0,5})	0.06 ± 0.02 kg/(m ² *24 ^{0,5})	
Calculated coefficient of thermal conductivity λ _o	-	-	-	0.00032 W/(m*K)	



Microbiological tests			
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%