



DATA SHEET  
PRODUCT  
ALUTHERM



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PRODUCT



# ALUTHERM

They are special paints that can modify the absorption of heat on the coating (roof, facade) due to solar energy and consequently regulate internal temperatures, making the rooms cooler in hot periods and milder in cold periods. This is possible because the heat wave is reflected by the metal and the heat is rejected in summer and is retained in winter. The energy benefit is between 2 and 5 ° C.

The advantages of this finish are:

- energy saving (less use of air conditioning)
- reduction of the thermal tension of the metal with consequent increase in the duration of the structure.

ALUTHERM

This technical data sheet refers to aluminium substrate product version

### TREATMENT

2 stage degreasing + chrome-free passivation

### TOP SIDE

PRIMER: 4-6 micron

TOP COAT: 19-21 micron

### BACK SIDE

BACK COAT: 5-7 micron

### TECHNICAL SPECIFICATIONS

TEST	VALUE	REFERENCE STANDARD
thickness	23-27 µm	EN 13523-1 (ECCA T1)
gloss	23-37	EN 13523-2 (ECCA T2)
pencil hardness	F-H	EN 13523-4 (ECCA T4)
resistance to rapid deformation (impact test)	100%	EN 13523-5 (ECCA T5)
adhesion after indentation (cupping test)	100%	EN 13523-6 (ECCA T6)
adhesion after bending at 25°C	0T-1T*	EN 13523-7 (ECCA T7)
resistance to cracking on bending (t-bend test) at 25°C	0T-2T*	EN 13523-7 (ECCA T7)
solvent resistance (MEK rubbing test)	>100	EN 13523-11 (ECCA T11)

\* according to substrate properties

### EXAMPLES DIFFERENCE SOLAR REFLECTANCE \*\*

PRODUCT NAME	SOLAR REFLECT.	SRI
White Gray standard	49.30%	56
Alutherm White Gray	56.90%	67
Dark Brown standard	8.00%	0
Alutherm Dark Brown	23.00%	21
Anthracite Gray standard	9.80%	3
Alutherm Anthracite Gray	23.60%	22
Siena Red standard	18.60%	15
Alutherm Siena Red	27.40%	27



\*\* Solar reflectance is expressed as the fraction of incident solar energy that is reflected from the surface in the three areas of the solar spectrum (Ultraviolet, visible and infrared). For example: 100% TSR means that the product reflects 100% solar energy incident in each area of the solar spectrum.

PRODUCT

UV RESISTANCE CATEGORY: RUV3  
ROHS COMPLIANT PAINT



printed on recycled paper