

Information note nr. 1

Metallic coating colors of the panel

The color of the metallic coating is one of the most decisive parameters when referring to the long-term durability of sandwich panels with a PUR or PIR core. This influence is determined by the temperature reached by the panels, which is strongly influenced by the color of the outer sheet.

As a general rule, darker colors and those with metallized pigments reach higher temperatures than lighter colors.

In a study conducted by one of our chemical suppliers, it was found that with an external ambient temperature of 27°C, the following temperature values were obtained in the outer sheet:

RAL	Name	Maximum temperature reached
9010	Pure white	52
9001	Cream	53
7035	Light grey	55
1015	Light ivory	55
9006	White aluminium	57
5010	Gentian blue	62
5012	Light blue	64
8023	Orange brown	67
8017	Chocolate brown	69
8004	Copper brown	70
3009	Oxide red	71
6005	Moss green	76
5013	Cobalt blue	80
7012	Basalt grey	84
9007	Grey aluminium	85
7022	Umbra grey	86
7016	Anthracite grey	88
9004	Signal black	92
9005	Jet black	93

Higher temperatures will cause greater thermal differences and, consequently, physical and chemical changes in the product components and stresses exerted on the panel, which in the medium/long term can lead to delamination and deformation of the sheet.

O FELIZ PAINEL recommends using colors that reach the lowest possible temperature when exposed to sunlight. The colors shown in red are not recommended.