

Exterior

Interior



External SolarCool Ultra

EXTERNAL SOLAR CONTROL

External SolarCool Ultra features advanced nanoceramic technology, allowing abundant natural light while effectively blocking infrared radiation to reduce solar heat gain. With near-invisible clarity and powerful heat rejection. External window films are designed to reflect solar heat and glare before it passes through the glass, making them one of the most effective solutions for reducing heat gain and improving occupant comfort.

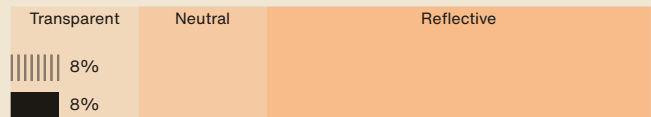
They are particularly well suited to laminated glazing and modern glass systems featuring specialist coatings, where the installation of traditional internal window films may not be recommended due to the glass's unique thermal properties.

By applying the film to the exterior pane instead, the heat absorption occurs on the outer surface of the glazing unit. The external pane is able to dissipate a greater proportion of the absorbed solar energy back into the atmosphere, reducing thermal stress within the glass assembly. As a result, the risk of glass damage is significantly minimised while still delivering excellent solar heat and glare reduction.

Visible Light Transmission (%)



Visible Light Reflection - External (%)



UV Rejection (%)



Total Solar Energy Rejected (%)



0 10 20 30 40 50 60 70 80 90 100

||| 3 mm simple glazing - without film ■ Film applied to 3 mm simple glazing

Characteristics

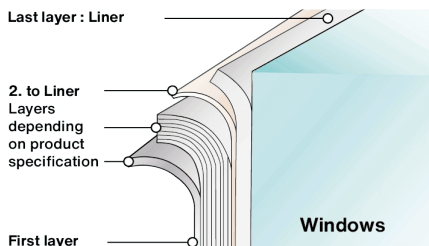
- Warranty**
10 years
- Fire Resistance Rating**
M1
- Storage in recommended conditions**
3 years
- REACH / RoHS**
Compliant
- Widths Available**
152 cm, 183 cm
- Installation Type**
Exterior
- Color From the Outside**
Neutral
- Length**
30.5 m
- Product Carbon Footprint (LCA)**
1.40 kgCO₂e/m²

Construction

- 1 Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
- 2 High optical quality polyester with an IR-blocking nanoceramic coating
- 3 Bonding adhesive
- 4 High optical quality polyester
- 5 PS adhesive, polymerizes with glass within 15 days
- 6 Protection PET release liner, disposable after installation

- Composition**
PET
- Thickness**
75 µm

Details



Energy and environmental benefits⁰¹

- Energy savings**
63.3 kWh/m²/year
- Carbon footprint reduction**
20.0 kgCO₂/m²
- Financial savings**
15 euros/m²/year

Optical and solar properties

Pane type	Single 3mm		Double Low-E	
	No film	With Film	No film	With Film
UV Rejection (%)	25	99	40	99
Visible Light Transmission (%)	91	75	82	68
Visible Light Reflection - External (%)	8	8	11	10
Visible Light Reflection - Internal (%)	8	8	12	10
Solar Energy Reflection (%)	5	6	28	10
Solar Energy Absorption (%)	8	53	12	62
Solar Energy Transmission (%)	87	41	60	28
Total Solar Energy Rejected (%)	12	56	35	66
Infrared Rejection (780 - 2500 nm) (%)	16	85	16	92
Glare Reduction (%)	-	21	-	21
Shading Coefficient	-	0.59	-	0.43
g-value	0.88	0.49	0.65	0.37
U-value (W/m ² .°C)	5.8	5.6	1.1	1.4

Application advice⁰²

Vertical situation and for a standard glazed surface

- Clear Single Pane ✓
- Tinted Single Pane !
- Reflective Tinted Single Pane ✓
- Clear Double Pane !
- Tinted Double Pane !
- Reflective Tinted Double Pane ✓
- Gas-Filled Double Pane - Low E !
- Stadip Ext. Clear Double Pane ✗
- Stadip Int. Clear Double Pane !

✓ Yes ✗ Not recommended ! Caution

Installation and Maintenance Advise

You can easily make your own installation fluid at home. Mix 1 liter of water with about 8 drops of baby shampoo or a mild, clear dish soap for installation and cleaning. Do not clean for one month after installation or apply stickers/adhesives on the film.



Access the installation and maintenance advice video

⁰¹ Values based on a study carried out on an air-conditioned building located in Luxembourg, with a film applied on a low-E double glazing, facing East. The heating months considered are from October to March, and the cooling months from April to September. We consider an electric heating system of the heat pump type, with a production efficiency of 3.5 and an electric cooling system with an efficiency of 3. For more information, visit our online tool.

⁰² Advice based on glazed surface area up to 2.5 m², please contact us for any confirmation or thermal shock analysis. The data in this information sheet is not contractual, we reserves the right to modify the composition of its products at any time. Please refer to our warranties and general sales conditions.