



**cool colors PLUS –  
in top Form – in any Climate**

**Exterior**



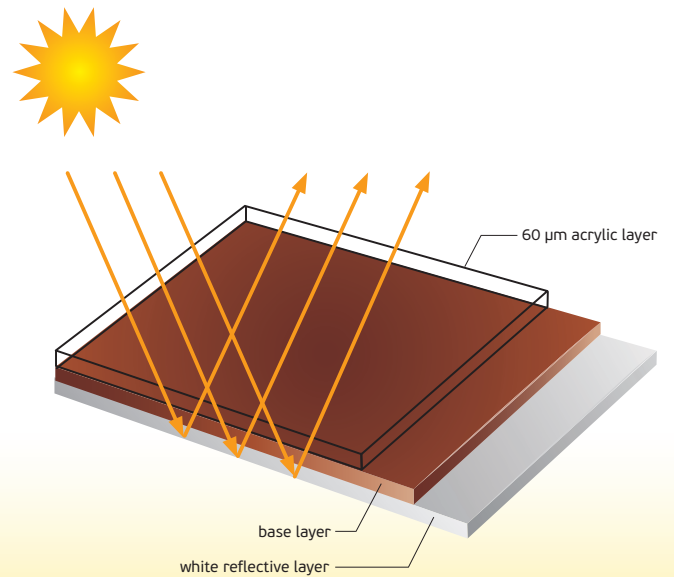
## In top Form – in any Climate

All designs of the current techprofil collection are equipped with the patented cool colors technology. It ensures that the profiles heat up much less, even in direct sunlight. A further development of the proven technology is the **cool colors PLUS** film. It is characterized by a 3-layer structure, which makes it even more efficient in reducing heat absorption, especially on dark surfaces.

**cool**  **PLUS**  
**colors**  
by Hornschuch

### 3 layers

In contrast to conventional cool colors films, the **cool colors PLUS** film consists of three layers.







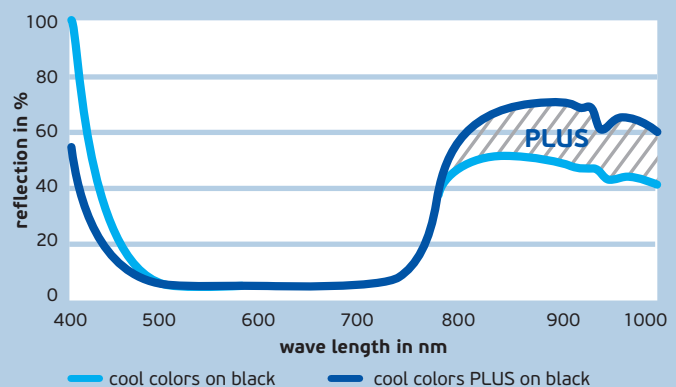
## Innovative

Colored films basically can only reflect a part of the IR radiation. Therefore part of the radiation also hits the substrate under it. If this substrate is dark, the IR radiation will be absorbed and converted into heat. With **cool colors PLUS** this is prevented by the white lower film which has excellent reflective characteristics. This results in best possible values in reducing heat absorption, so even dark colors can be used in hot regions without concern. The technology also achieves excellent results in weathering due to its innovative, 60 µm thick acrylate layer with outstanding UV-protection characteristics.

## Functional

In comparison with existing heat-optimized solutions on the market, **cool colors PLUS** achieves 5 °C better results in thermal measurement. This improvement allows much more possibilities in window construction with colored profiles. Because of this extraordinary characteristic, the film qualifies itself for the use in extreme climate regions all over the world.

Theoretical mode of operation cool colors and cool colors PLUS on black



## Safe

**cool colors PLUS** not only achieves excellent values in the reduction of heat build-up, but also in weathering. Therefore a worldwide warranty up to 10 years applies for **cool colors PLUS**. So the **cool colors PLUS** films are the first choice for coating outdoor components in hot climate zones.

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