



IllumiCoat ultra matte

High reflective coating

IllumiCoat is a pre-coated aluminum finish that offers optimum diffuse light reflection. This implies that less light units or energy can be used while keeping an equal light performance. The reflective characteristics of this paint system are such that they compensate the frequently used micro perforations in acoustic roof and wall panels.

In terms of aesthetics the finish is suiting the architectural trend towards full matte and textured surfaces whilst at the same time offering purity and sense of space.

Characteristics

- Less energy is needed for equal light performance
- Full matte / textured surface with high architectural appeal
- Maximum light reflection in pre-coating (LRV > 85)
- Zero gloss providing optimum diffuse light reflection
- Ultra white color provides purity and sense of space
- Interior and exterior applications

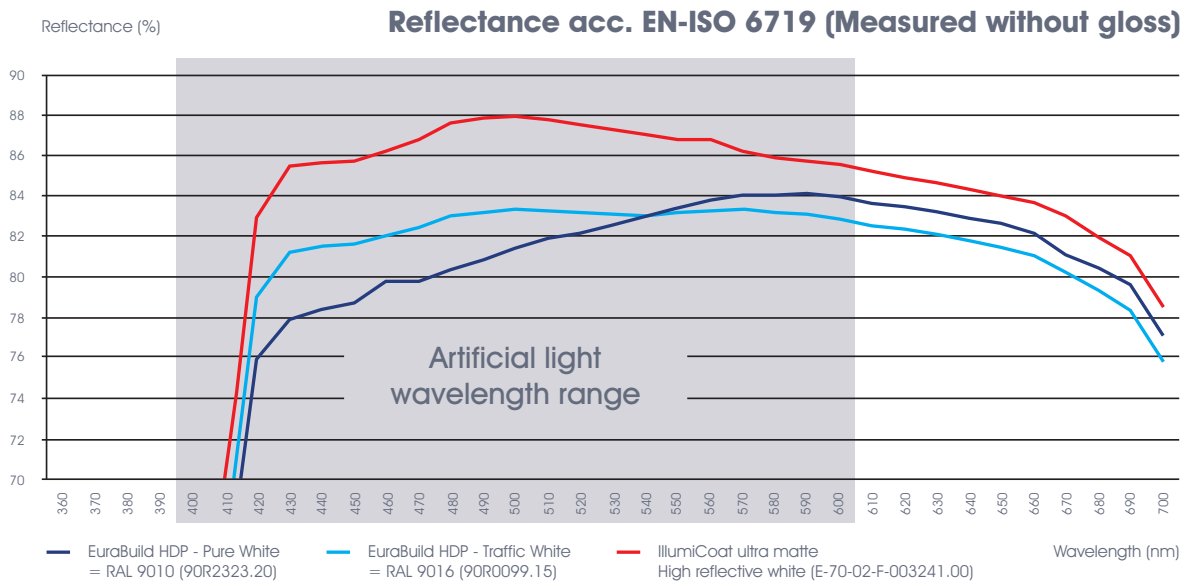
Product	IllumiCoat ultra matte
Color	High reflective white
Reference	E-70-02-F-003241.00

Technical

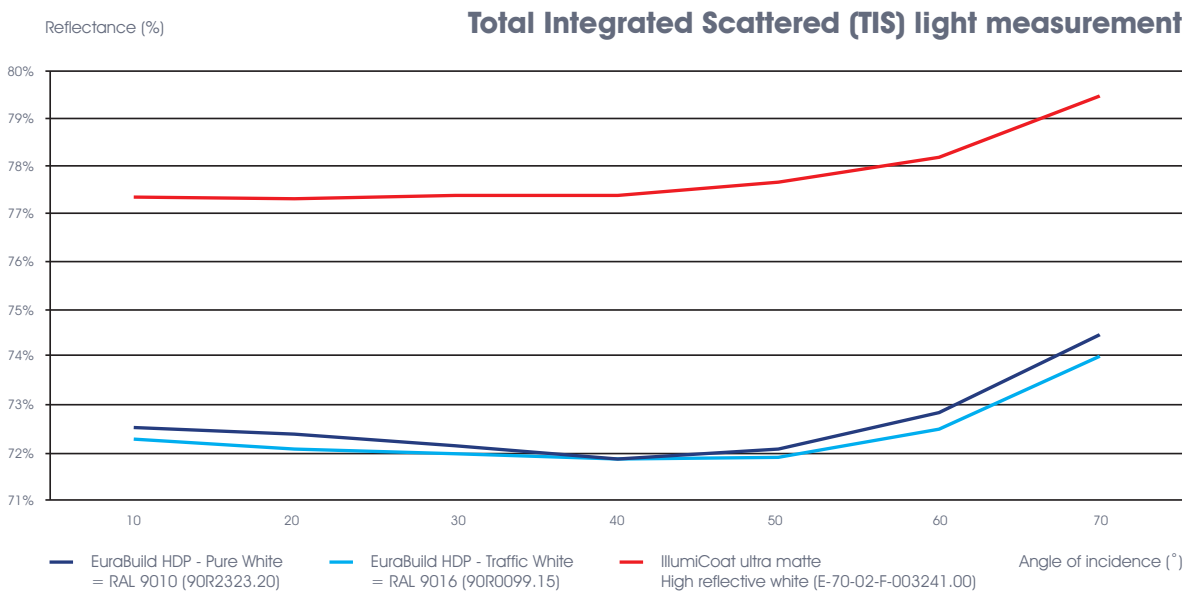
Paint system	High Durable Polymer
Process	Coil coating
Thickness	0.3 mm to 2.0 mm
Width	300 mm - 2.600 mm
Gloss	0 gloss units (also available in other gloss levels)
Bending radius	2 T
Substrate	Aluminum
Total layer thickn.	36 mu

Specification

Premium pre-coated aluminum in a textured 2 layer High Durable Polymer coating containing high-reflective pigments. Middle value of light reflection acc. ISO 6719 is minimum 76. The total system is coil coated in Europe acc. NEN-EN 1396:2015. Dry layer thickness according EN 13523-1 is minimum 36 micron and specular gloss topcoat acc. EN 13523-2 is 0 gloss units.



The principle of the EN-ISO 6719 is a measurement, using an integrating-sphere reflectometer, of the total and diffuse reflected light at difference angles of incidence, close to the normal surface of a test specimen. The above graph shows the light spectrum visible to the human eye. The middle value of light reflection of IllumiCoat is 76% over the total spectrum. Artificial light sources, however, have the majority of wavelengths between 400 & 600 nm. In that range IllumiCoat offers up to 10% higher light reflections than standard systems.



Total Integrated Scattering is a surface quality measure indicating how much light is randomly deviating in space from a specularly reflected laser beam. The above graph shows that for virtually every angle of incidence the light volume is on average 5% higher than with standard systems.