

# High Reflectivity Coatings

EN

# High Reflectivity Coatings

A certified innovative coating system offering more heat reflectivity than virtually any other roofing material available, letting the user realize significant energy savings in a wide variety of colours, varying from solid to metallic, and from light to dark colours.

## Features

A special coating that reflects solar radiation up to 84% (depending on the colour shade) achieving the least heat transmission to the interior of the building. As a result this leads to energy savings and cooler interior spaces.

## Advantages/Benefits

- Heat is reflected away from buildings and buildings absorb less temperature leading to lower environmental temperatures in dense populated areas
- Lower environmental temperatures help reduce smog levels
- Energy saving
- Less heat transmission from external to internal
- Cooler interior spaces sometimes 11°C cooler than traditional roofs
- The life expectancy of the roof itself increases due to less expansion and contraction

## Typical Applications

- Coated Aluminium Facades, etalbond® & ELVAL ENF™
- Coated Aluminium Corrugated Sheets, ELVAL ENF™ Corrugated
- Coated Aluminium Roofing, Orofe®
- Interior Decoration partitions and furniture, etalbond® light & slim
- Coated Aluminium for rain gutters, Ydoral®

## Technical Advice/ Documents

Visit our website at  
[www.elval-colour.com/en/products-high-reflectivity](http://www.elval-colour.com/en/products-high-reflectivity)

## Technical Datasheet High Reflectivity Coatings

### Coating Description

Coating Type	PVDF
COLOUR SHADES	A wide variety of solid, metallic or special design colour shades
Weatherability	20 years
Company warranty	15 years, standard environment
TSR Index*	>55 for light colours
*Depends on the colour shade	

### Technical Characteristics

Parameter	Method	Target value	Units	Tolerances
Coating Thickness*	EN 13523-1	30-45	µm	± 3
*depends on the colour shade				
Colour deviation				
ΔE* Light solid colours	EN 13523-3	0		<1
ΔE* Dark solid colours	EN 13523-3	0		<2
Visual comparison (Metallic and high chroma colours)	EN 13523-22			
MEK Resistance	EN 13523-11	80	D.R.	min 80
T-Bending	EN 13523-7	1	T	
Pencil Hardness	EN 13523-4	F		min F
Cupping Test	EN 13523-6	No paint detachment (Class 0)		