

## colofer® PLUS 50

### Convincing advantages

- » Excellent corrosion resistance (RC5)
- » High level of UV resistance (RUV 4)
- » Various surface structures
- » Up to 40-years guarantee (special guarantees upon request)

### Typical applications

- » Roof and wall applications with high demands on corrosion resistance



Premium quality with reduced carbon footprint



- » Applicable on both sides
- » Hot laminated protective film and adhesive film upon request

Properties	Testing standard/Inspection requirement	Typical values
Coating thickness	EN 13523-1	50 µm
Color	EN 13523-3	upon agreement
Gloss (60°)	EN 13523-2	3 – 50, other gloss upon request
Adhesion after cupping	EN 13523-6	6 mm Gt0B
Adhesion after bending	EN 13523-7	≤ 1 T peel adhesion
Crack formation after bending	EN 13523-7	≤ 1.5 T free of cracks
Scratch resistance	based on EN 13523-12	≥ 40 N (matt: ≥ 30N)
Temperature resistance (during use)	-	+100 °C <sup>1)</sup>
Resistance to humidity » Continuous humidity test	EN 13523-25	Test duration: 1,000 h No formation of blisters on surface
Corrosion resistance » Salt spray test	EN 13523-8	Test duration: 500 h Average creepage (scratch to Zn): 2 mm max., no formation of blisters on surface
Corrosivity category	DIN 55634: 2018	C3 (on ZM120) / C5 (on Z275)
RC category	EN 10169	RC5 on Z275
CPI category	EN 10169	CPI 4
UV resistance category <sup>2)</sup>	EN 10169	RUV 4
Surface appearance	-	smooth, structured or matt
Fire classification	EN 13501-1	A1 <sup>3)</sup>

All testing standards are the most recent version as long as a year is not indicated.

1) No delamination of coating on even surfaces throughout guarantee period for coating adhesion. Color shades will change as a result of long-term stress at high temperature.  
 2) UV resistance category depends heavily on color. The respective RUV class is achievable only for colors noted in table „Overview of color shades“ in the Technical Terms of Delivery for colofer®. Additional colors upon request.  
 3) In combination with colofer® REVERSE as a backing coat

Guarantee services for wall applications <sup>1)</sup>	RC2			RC3			RC4			RC5			RC5		
	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200
Corrosion (rust)	40	35	25	25	25	15	15	⊗	⊗	☰	⊗	⊗	☰	⊗	⊗
Coating adhesion	15	15	15	12	12	12	8	⊗	⊗	☰	⊗	⊗	☰	⊗	⊗
Visual appearance	RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169		

  

Guarantee services for roof applications <sup>1)</sup>	RC2			RC3			RC4			RC5			RC5		
	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200
Corrosion (rust)	35	30	20	20	20	10	12	⊗	⊗	☰	⊗	⊗	☰	⊗	⊗
Coating adhesion	12	12	12	10	10	10	5	⊗	⊗	☰	⊗	⊗	☰	⊗	⊗
Visual appearance	RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169		

  

Guarantee services for drainage applications <sup>1)</sup>	RC2			RC3			RC4			RC5			RC5+		
	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200	Z275	ZM120	Z200
Corrosion (rust)	20	20	10	15	15	8	12	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Coating adhesion	10	10	10	8	8	8	5	⊗	⊗	☰	⊗	⊗	☰	⊗	⊗
Visual appearance	RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169			RUV 4 acc. to EN 10169		

  

Guarantee periods depending on altitude	up to 900 m	901 – 1,300 m	1.301 – 1,700 m	1,701 – 2,100 m	above 2,100 m
Guarantee	100%	90%	70%	50%	☰

☰ Upon request   ☰ Only with special guarantee   ⊗ Not available   ★ only applies to selected standard colors   Guarantee periods rounded to whole years.

1) This guarantee between voestalpine and its direct customer shall be governed by and construed in accordance with Austrian law (with the exclusions of its conflict-of-law provisions and the UN Convention on Contracts for the International Sale of Goods of 11 April 1980 - CISG) and only valid in connection with the respective regulations of most recent version of the colofer® guarantee provisions applying at the time of the order confirmation by voestalpine.



Premium quality with reduced carbon footprint

colofer®  
greentec steel

Organic-coated steel strip – greentec steel Edition

Max. carbon footprint 2.23 kg CO<sub>2</sub>e per kg of steel<sup>1)</sup>

<sup>1)</sup> per EN 15804+A2 (EPD methodology) cradle to gate

All products, dimensions and steel grades listed in each voestalpine supply range are available as greentec steel Edition.

All values reflect the current status of our experience and knowledge. Slight deviations may occur as a result of specific color and sheet thickness. Paper printouts cannot be updated on a regular basis. For this reason, please refer to the most recent version of the online data sheets found on our home page ([www.voestalpine.com/colofer](http://www.voestalpine.com/colofer)).

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To find out more about colofer®, please visit us at [www.voestalpine.com/colofer](http://www.voestalpine.com/colofer)



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voestalpine  
ONE STEP AHEAD.