

colofer® PLUS

More than just maximum protection

Experts at every level. Maximum protection and performance for drainage systems! colofer® PLUS stands for perfect all-round protection, limitless functionality and completely chromate-free coating technology.

Excellent corrosion protection (RC5), highest reference values for scratch resistance (40 N) and UV resistance category (RUV 4). Up to 40-year guarantee period and special guarantees for exceptional loads.

Convincing advantages:

- » Extremely high corrosion resistance (RC5)
- » High level of UV resistance category (RUV 4)
- » Highest reference value for scratch resistance (40 N)
- » Variety of different surface textures
- » Up to 40-year warranty period and special guarantees

Typical applications:

- » Sandwich panels
- » Cassette elements
- » Gutters and tubes



Our colofer® technical support consists of a large pool of experts who will be happy to assist you with all your inquiries.

Properties	Testing standard/Inspection requirement	Typical values
Coating thickness	EN 13523-1	approx. 50 µm
Color	EN 13523-3	upon agreement
Gloss (60°)	EN 13523-2	30 - 50
Adhesion after cupping	EN 13523-6	6 mm Gt0B
Adhesion after bending	EN 13523-7	≤ 1 T peel adhesion
Crack formation during bending	EN 13523-7	≤ 1,5 T free of cracks
Scratch resistance	based on EN 13523-12	≥ 40 N
Temperature resistance (during use)	-	from -20 to +80 °C ¹⁾
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
Corrosion protection class	DIN 55928-8: 1994	KIII
Corrosivity category	DIN 55634: 2010	C3 (on ZM120 substrate) / C3 - C5 (on Z275 substrate)
RC category	EN 10169	RC5 on Z275
CPI category	EN 10169	CPI 4
UV resistance category ²⁾	EN 10169	RUV 4
Surface appearance	-	smooth or structured
Fire classification	EN 13501-1	A1 ⁴⁾

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

Guarantee services for wall applications ³⁾	RC2			RC3			RC4			RC5		
	ZM120	Z275	Z200	ZM120	Z275	Z200	ZM120	Z275	Z200	ZM120	Z275	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		

Guarantee services for roof applications ³⁾	RC2			RC3			RC4			RC5		
	ZM120	Z275	Z200	ZM120	Z275	Z200	ZM120	Z275	Z200	ZM120	Z275	Z200
Corrosion (rust)	35	30	20	20	20	10	⊗	12	⊗	⊗	⊗	⊗
Coating adhesion	12	12	10	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		

Guarantee services for drainage applications ³⁾	RC2			RC3			RC4		
	ZM120	Z275	Z200	ZM120	Z275	Z200	ZM120	Z275	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		

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				
	100%					90%					70%					50%					⊗				
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) 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) 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.
 4) In combination with colofer® REVERSE as a back-side coating

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).

The information and product properties contained in this printed material are non-binding and serve the sole purpose of technical orientation. They do not replace individual advisory services provided by our sales and customer service teams. The product information and characteristics set forth herein shall not be considered as guaranteed properties unless explicitly stipulated in a separate contractual agreement. Technical changes are reserved. Errors and misprints are excepted. No part of this publication may be reprinted without explicit written permission by voestalpine Stahl GmbH.

To find out more about colofer®, please visit us at www.voestalpine.com/colofer

