

## colofer® ROBUST RAIN

### More than just extremely resistant

**Like water off a duck's back.** Our many years of experience as a supplier of colofer® for drainage systems have been the basis for our development of colofer® ROBUST RAIN. Completely new product specially suited to this area of application. The higher layer thickness (35 µm) in comparison with colofer® ROBUST results in additional protection and functionality.

#### Convincing advantages:

- » High level of scratch and UV resistance category (RUV 4)
- » High Resistance to humidity (RC4)
- » Guaranteed up to 2100 meters above sea level

#### Typical applications:

- » Gutters and tubes
- » Roof drainage systems



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. 35 µm
Color	EN 13523-3	upon agreement
Gloss (60°)	EN 13523-2	20
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	≤ 2 T free of cracks
Scratch resistance	based on EN 13523-12	≥ 35 N
Temperature resistance (during use)	-	from -20 to +80 °C <sup>1)</sup>
Resistance to humidity » Continuous humidity test	EN 13523-25	Test duration: 750 h No formation of blisters on surface
Corrosion resistance » Salt spray test	EN 13523-8	Test duration: 360 h Average creepage (scratch to Zn) 2 mm max., no formation of blisters on surface
Corrosion protection class	DIN 55928-8: 1994	KIII
Resistance to humidity category on Z275/ZM120 substrate	DIN 55634: 2010	C3
RC category	EN 10169	RC4 on Z275
CPI category	EN 10169	CPI 4
UV resistance category <sup>2)</sup>	EN 10169	RUV 4
Surface appearance	-	structured
Fire classification	EN 13501-1	⊖

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

Guarantee services for drainage applications <sup>3)</sup>	RC2			RC3			RC4		
	ZM120	Z275	Z200	ZM120	Z275	Z200	ZM120	Z275	Z200
Corrosion (rust)	18	18	10	12	12	8	⊗	10	⊗
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 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) 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.

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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