



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
- » Roof and wall



Premium quality
with reduced carbon footprint

colofer®
greentec steel



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 ¹⁾ |
| 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 |
| Corrosivity category on Z275/ZM120 substrate | DIN 55634: 2018 | C3 |
| RC category | EN 10169 | RC4 on Z275 |
| CPI category | EN 10169 | CPI 4 |
| UV resistance category ²⁾ | EN 10169 | RUV 4 |
| Surface appearance | - | structured |
| Fire classification | EN 13501-1 | ⊖ |

⊖ Upon request

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.

| Guarantee services for wall applications ¹⁾ | RC2 | | | RC3 | | |
|--|------------------------|------|------|------------------------|------|------|
| | ZM120 | Z275 | Z200 | ZM120 | Z275 | Z200 |
| Corrosion (rust) | 20 | 18 | 12 | 15 | 15 | 10 |
| Coating adhesion | 10 | 10 | 10 | 8 | 8 | 8 |
| Visual appearance | RUV 4 acc. to EN 10169 | | | RUV 4 acc. to EN 10169 | | |

| Guarantee services for roof applications ¹⁾ | RC2 | | | RC3 | | |
|--|------------------------|------|------|------------------------|------|------|
| | ZM120 | Z275 | Z200 | ZM120 | Z275 | Z200 |
| Corrosion (rust) | 20 | 18 | 10 | 12 | 12 | 8 |
| Coating adhesion | 10 | 10 | 10 | 8 | 8 | 8 |
| Visual appearance | RUV 4 acc. to EN 10169 | | | RUV 4 acc. to EN 10169 | | |

| Guarantee services for drainage applications ¹⁾ | 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 | 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.

OUR PATH TO A GREENER FUTURE

Premium products in the greentec steel Edition

With greentec steel, voestalpine is pursuing an ambitious step-by-step plan in the long-term decarbonization of steel production. The declared objective is to achieve carbon-neutral production by 2050, and the initial steps have already been taken. Process-optimized production operations already prevent up to 10% of the direct CO₂ emissions at the Linz site. The material and processing properties of the steel are not affected in any way in this production route. Each voestalpine steel strip product is available in premium quality in the greentec steel Edition with a reduced carbon footprint and unique benefits.



Premium quality with reduced carbon footprint



Organic-coated steel strip – greentec steel Edition

Max. carbon footprint 2.23 kg CO₂e per kg of steel ¹⁾

¹⁾ 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).

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.

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