

colofer®

TECHNICALLY DEMANDING APPLICATIONS

More than just maximum protection

voestalpine Steel Division
www.voestalpine.com/colofer

voestalpine

ONE STEP AHEAD.

Christoph Angeli, Customer Service

colofer®

MORE THAN JUST MAXIMUM PROTECTION

colofer® for demanding applications

Are you planning an application exposed to harsh environmental conditions?
colofer® PLUS withstands all the extremes of stress due to corrosion, UV exposure and mechanical load. In environments where other products fail, you can't go wrong with colofer® PLUS.

From our perspective, there is only one product that is perfectly suited to applications under the harshest conditions and provides superior service life:

» colofer® PLUS

colofer® complies with the following certifications and guidelines:
EPD, DGNB, BREEAM, LEED, RoHS, REACH.



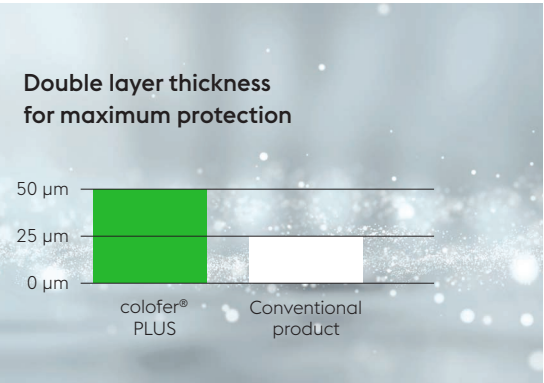
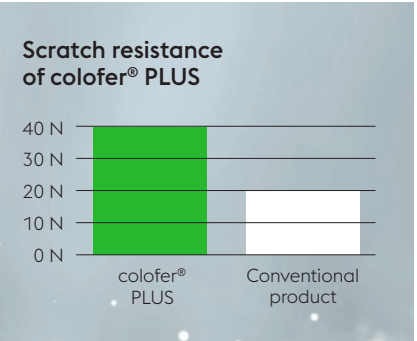
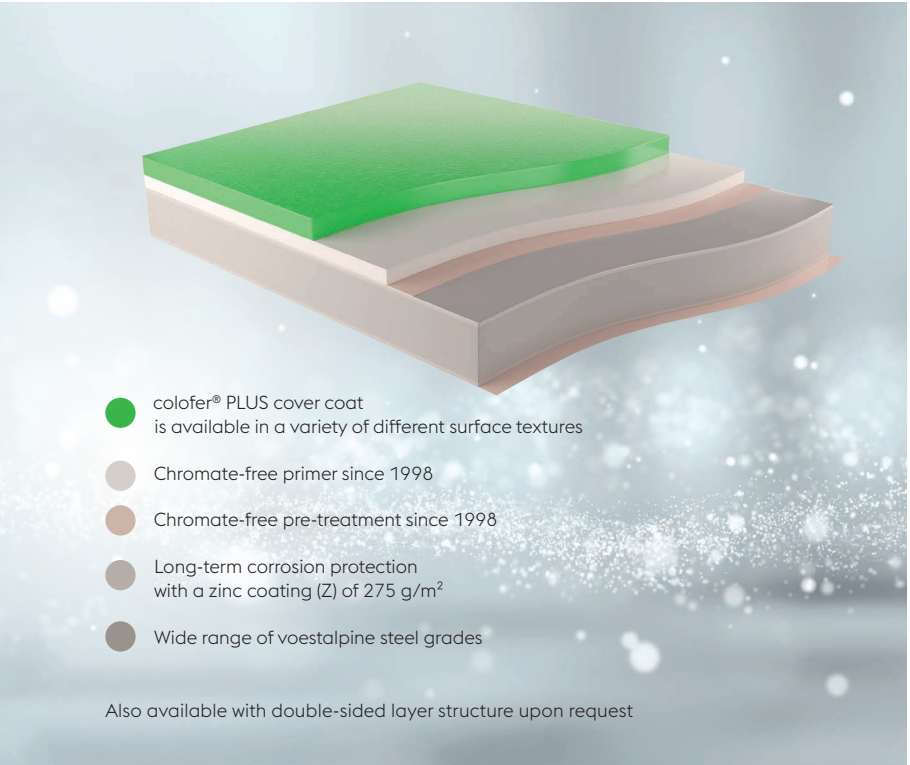
To find out more about colofer®,
please visit us at
www.voestalpine.com/colofer

colofer® PLUS 50 µm

More than just maximum protection

Are you looking for a durable and perfectly functional product for your project or application?

A product in which only the best prematerials are used and which is 100 percent convincing both in processing and permanent use? colofer® PLUS stands for the best values in technical properties as well as long-lasting and reliable performance with a guarantee for many years.



Why you can rely on colofer® PLUS! Numerous international customers rely on the versatility and performance of colofer® PLUS and thus set the standard for products that are one step ahead.



40-year guarantee and special guarantees

With colofer® PLUS, you get up to 40 years of guarantee – automatically, no strings attached. For particularly demanding environments or guarantee requirements that go beyond standard guarantees, there is the possibility of acquiring special object-related guarantees.

You will find more detailed information on colofer® guarantees in the colofer® guarantee provisions at www.voestalpine.com/colofer

- » Highest level of corrosion protection (RC5)
- » Highest UV resistance category (RUV 4)
- » Mechanical robustness (40 N)
- » Best forming properties (1.5 T)
- » Longest guarantee (40 years)



RELIABLE PERFORMANCE TEST RESULTS TAKE TIME!

Lab tests are accelerated procedures that do not optimally represent true product performance under natural conditions. The actual performance of colofer® PLUS only becomes apparent after years of outdoor weathering and real application.

voestalpine therefore attaches great importance to evaluating the product performance of colofer® PLUS on the basis of results from outdoor weathering and real applications worldwide. The measured values are impressive: For many years, colofer® PLUS has been proving its top performance in countless applications, even under the most extreme natural conditions.



NO OTHER colofer® PRODUCT OFFERS SUCH A HIGH LEVEL OF PROTECTION AND DURABILITY.



INDUSTRIAL ATMOSPHERE

RC5



SEA ATMOSPHERE

RC5



ALTITUDES ABOVE 2,100 METERS

RUV4



EXPOSURE TO THE STRONGEST ULTRA- VIOLET RADIATION

RUV4



MAXIMUM MECHANICAL STRESS

50µm



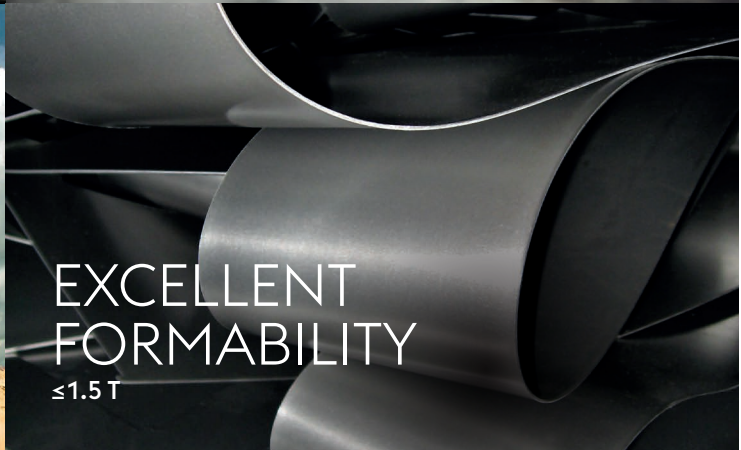
HIGH RESISTANCE TO SCRATCHING

40 N



IMPRESSIVE GUARANTEES

of up to 40 years



EXCELLENT FORMABILITY

≤1.5 T



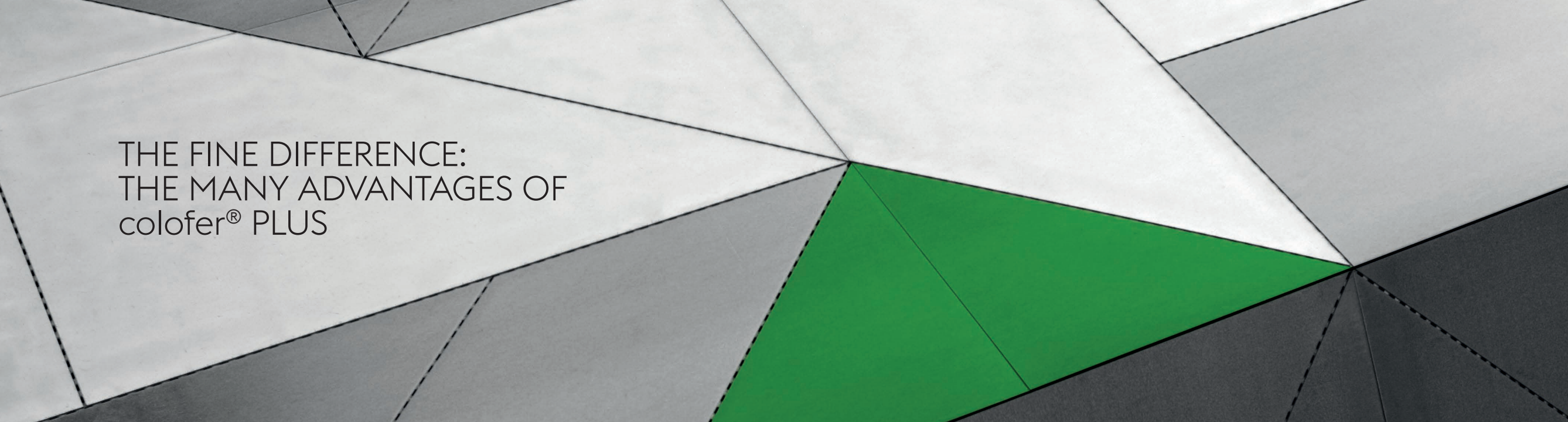
NEARLY UNLIMITED VARIETY OF COLORS

colofer® colorservice



FREE FROM CHROMATE SINCE 1998

ECO-Pioneer



THE FINE DIFFERENCE: THE MANY ADVANTAGES OF colofer® PLUS



Environmental protection and maximum performance are not a contradiction

The REACH regulation severely restricted the use of chromate in 2017. colofer® has been an ECO-Pioneer since 1998 and we have acquired more in-depth manufacturing knowledge and product expertise in the field of chromate-free coating technologies than any other steelmaker. This unique experience enables us to give up to 40 years guarantee and to guarantee applications subject to the toughest conditions. In contrast with many other new developments, colofer® PLUS has already proven itself in real application.



Extremely flat

The special manufacturing method for the ultraplan substrate lends colofer® PLUS an extremely flat surface free of medium waviness. Thanks to the ultraplan substrate, colofer® facades not only look particularly aesthetic as a result of their high-quality coating, but also because of their perfectly flat surface.



The modern and environmentally friendly alternative to plastisol

Because of its smooth surface, colofer® PLUS is significantly less susceptible to impurities than embossed surfaces typical for plastisol and can easily withstand surface temperatures of up to 80 °C. (Plastisol is not a chemically cross-linked system, which is why ageing effects can occur at temperatures above 60 °C.) colofer® PLUS also meets fire protection class A1 and, unlike plastisol, does not contain PVC (polyvinyl chloride), which releases chlorine gases in the event of a fire.



Intense colors even after many years

colofer® PLUS offers an extremely wide range of colors and two surface finishes (smooth and textured). Since only the highest-quality paints are used for production, colofer® PLUS exceeds the requirements for the highest UV resistance category RUV 4 according to EN 10169. Even after many years, the facade shines as intensely colored as on the first day.



ISO 14001 and EMAS

The colofer® production site of voestalpine Stahl GmbH implements environmental management systems pursuant to ISO 14001 and is certified according to EMAS III (EC) 1221/2009.



Environmental product declarations (EPDs)

An environmental product declaration provides transparent and neutral information on the environmental effects of a product based on an ecological life-cycle assessment (LCA). The EPD is based on the EN15804 and ISO 14025 standards and was verified by independent auditors and published as part of the declaration program of the Institute for Construction and Environment (IBU) in Berlin.



DGNB, BREEAM and LEED

The EPD applies to the entire colofer® product portfolio and is a reliable database that completely complies with the requirements of the DGNB, BREEAM and LEED building certification systems.



Fire protection certifications

Selected colofer® PLUS products meet the fire protection requirements of Euroclass A1 pursuant to EN 13501-1.

Properties	colofer® PLUS			
Coating thickness	approx. 50 µm			
Adhesion after bending	≤ 1 T			
Crack formation during bending	≤ 1.5 T			
Scratch resistance	≥ 40 N			
UV resistance category	RUV 4			
Corrosion resistance	RC5 ¹⁾			

Certifications/guidelines	colofer® PLUS			
EPD	✔			
DGNB	✔			
BREEAM	✔			
LEED	✔			
RoHS	✔			
REACH	✔			

Guarantee services for wall applications	colofer® PLUS			
	RC2	RC3	RC4 ¹⁾	RC5 ¹⁾
Corrosion (rust)	40	25	15	✔
Coating adhesion	15	12	8	✔
Visual appearance	RUV 4	RUV 4	RUV 4	RUV 4

Guarantee services for roof applications	colofer® PLUS			
Corrosion (rust)	35	20	12	✔
Coating adhesion	12	10	5	✔
Visual appearance	RUV 4	RUV 4	RUV 4	RUV 4

Guarantee services for drainage applications	colofer® PLUS			
Corrosion (rust)	20	15	12	✔
Coating adhesion	10	8	5	✔
Visual appearance	RUV 4	RUV 4	RUV 4	RUV 4

Guarantee periods depending on altitude	colofer® PLUS				
	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%	✔

- ✔ Available

ⓘ Upon request

✗ Not available
- ✔ Only with special guarantee

★ Only applies to selected standard colors

¹⁾ Only available on substrate Z275

Guarantee periods rounded to whole years.
You will find more detailed information on colofer®
guarantees in the colofer® guarantee provisions at
www.voestalpine.com/colofer

COLOR
COURAGE



With our colofer® color service, we are able to reproduce a large number of additional colors. Whether it be RAL, NCS, Pantone color matching systems or corporate identity guidelines, we offer a virtually unlimited color selection. We will be happy to reproduce any color on the basis of customer samples. Thanks to our high-precision measurement methods and detailed process knowledge, we can guarantee exact color matches.



Do you need support in making the right adjustments to your production lines? Do you want assistance selecting the right product? Do you need quick support in the event of problems? Our large pool of technical experts will be happy to assist you in any way.

Standardcolors

The unique design of the production line makes it possible to achieve a very high degree of reliability in the reproduction of color shades.





MORE THAN JUST ORGANIC COATED STEEL STRIP

For demanding applications

colofer® is much more than just organic-coated steel strip. colofer® is an inspiring product that creates added value for customers, which translates into superior quality and performance along the entire value chain.



Learn more about our colofer® services in this video.
www.voestalpine.com/colofer/en/Service/colofer-R-Service



colofer® ADDED VALUE

IT'S THE INNER VALUES THAT COUNT! THEY MAY NOT BE APPARENT AT FIRST GLANCE BUT ARE NEVERTHELESS HARD TO OVERLOOK ON CLOSER INSPECTION.



More than just environmentally compatible – The ECO-Pioneer
colofer® is a true pioneer when it comes to protecting the environment and employee health and safety. Already in 1998, voestalpine developed an environmentally compatible method for the production of colofer® by completely eliminating chromate from the process without compromising the excellent product performance and the length of guarantee periods.

voestalpine operates one of the cleanest and most environmentally compatible steelmaking plant in Europe and has already won the Green Brands Austria award. Additionally, it was given the title of a Steel Sustainability Champion, more than justifying its reputation as an environmental pioneer.



More than just quality – High Quality made in Austria

Our high-tech steel strips and paints from renowned European manufacturers are the basis for the consistently high level of quality that is characteristic of colofer®. Thanks to our integrated steel mill at the Linz location, we always have full control of all value-adding process steps involved. colofer® is produced in a single facility using high-precision measuring methods. As a result, our customers benefit from consistently high quality and from products that strictly comply with the agreed specifications.



More than just products – colofer® Service

We consider services to be part of the product itself, which is why we also strive for perfection in our services. Learn more about our colofer® services!

- » colofer® technical support
- » colofer® colorservice
- » colofer® coilsplitting
- » colofer® ROL
- » colofer® inside
- » voestalpine Steel & Service Center

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