

corrender

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Hot-dip galvanized steel strip:  
A new perspective

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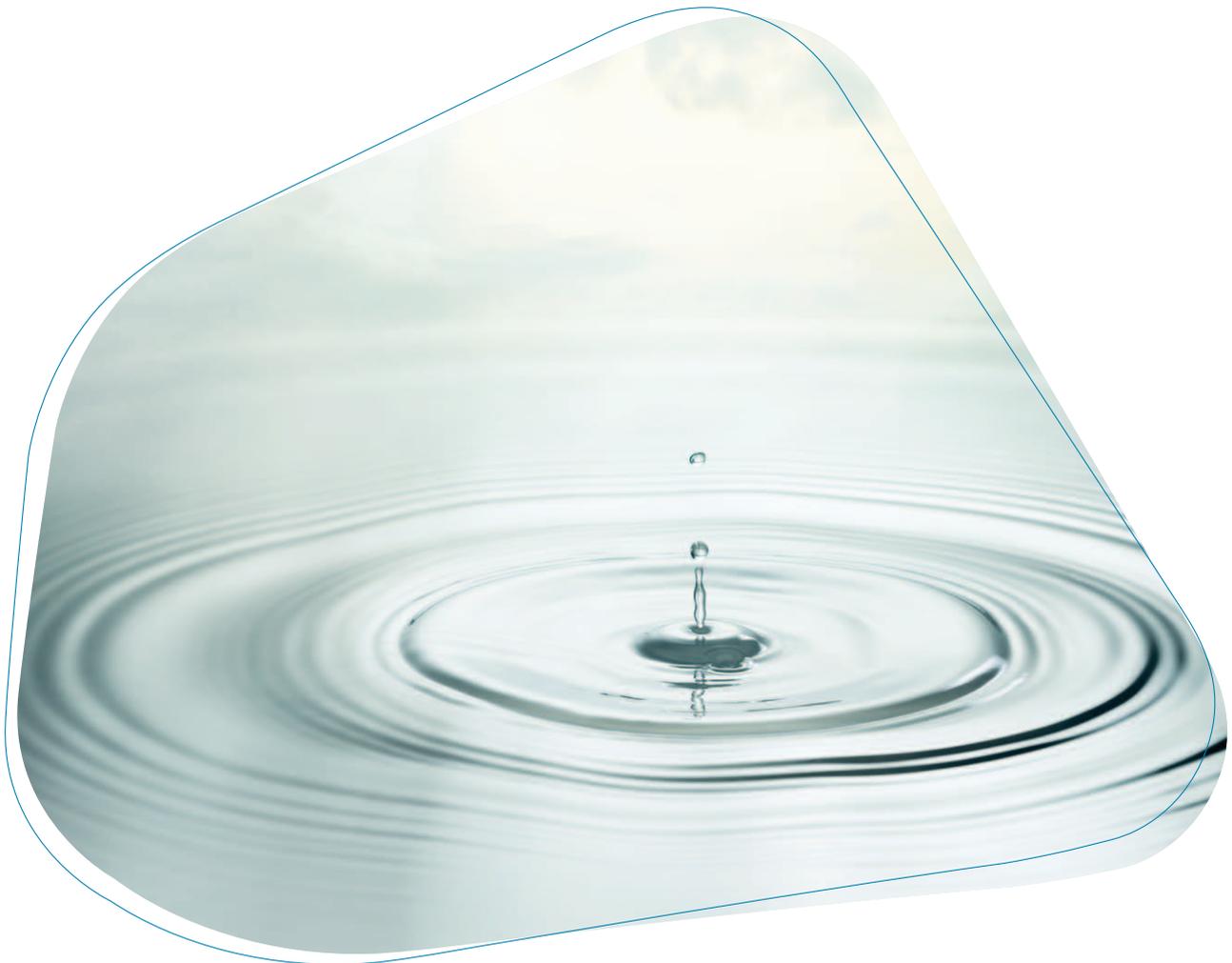
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ONE STEP AHEAD.

# corrender

## Hot-dip galvanized steel strip: A new perspective

corrender is the next evolutionary step in hot-dip metal-coated products. A powerful protective layer with numerous advantages is created through alloying small amounts of magnesium and aluminum in the zinc bath. The coating has numerous advantages in processing and corrosion protection. corrender makes a substantial contribution to increased production efficiency and enhanced conservation of resources.



# corrender

## The next evolutionary step in hot-dip metal-coated products

voestalpine is a highly professional and reliable partner to many important customers in the construction and mechanical engineering industry. In this role, the company is naturally committed to extensive research and development activities in order to provide products that help our customers more effectively surmount future challenges.

corrender stands for the next evolutionary step in hot-dip metal-coated products that are superior because of several advantages when compared to classical galvanized steel. Extensive laboratory experiments, large-scale trials, industrial-scale applications and customer references have confirmed the benefits and potential of corrender in the construction and mechanical engineering industry.

### Convincing advantages

- Excellent cathodic corrosion protection
- Improved processing efficiency
- Conservation of resources and environmental protection

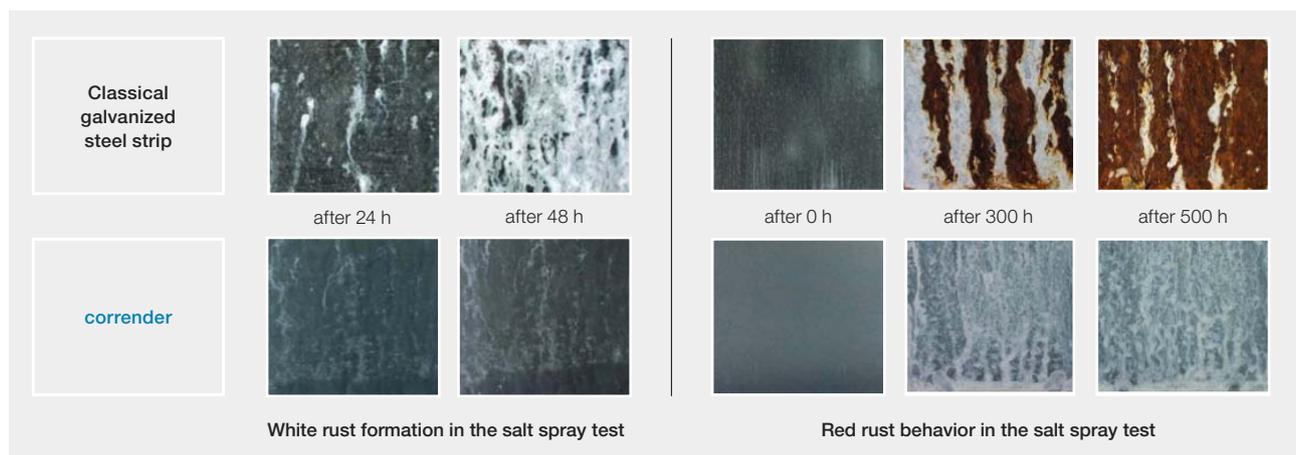
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## Excellent cathodic corrosion protection

The corrosion protection in the high-performance protective layer is much improved when compared to that of classical galvanized steel. Also, the cathodic corrosion protection of corrender provides optimized protection against edge and crack corrosion.

### Significantly improved protection against white rust

Conventionally galvanized steel strip shows substantial signs of white rust after 48 hours in the salt spray test. Contrastingly, the corrender surface is practically free of white rust after the same amount of testing time.

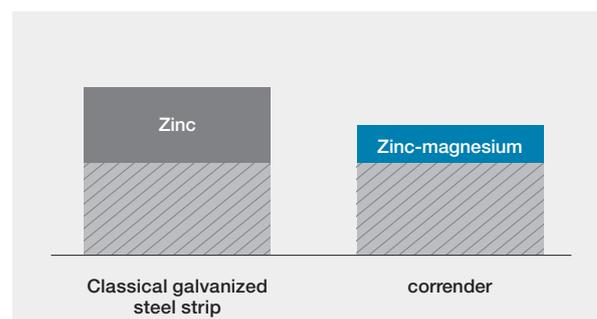


### Significantly improved protection against red rust

The superior protective properties of corrender become particularly apparent in tests for red rust. Because a passive layer is formed, red rust formation is delayed significantly. No signs of red rust formation are recognized, even after 500 hours in the salt spray test. The protective effects of corrender were also demonstrated in steel strip after being formed.

### Reduced metallic coating thickness

Because of the substantially improved protective properties of corrender, the metallic coating layer thickness can be significantly reduced while maintaining the same level of corrosion protection. Valuable resources are conserved through the reduced thickness of the metallic coating.



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## Excellent workability

corrender increases efficiency and thus reduces production costs. The high-performance protective coating results in special processing properties that lead to considerable increases in production and processing efficiency.

### No need for forming emulsions for simple forming processes

Excellent formability makes it possible to eliminate the need for forming emulsions when creating simple geometries. Fewer process steps and operating resources result in substantial savings.

# Preservation of the environment

## Dedicated to environmentally compatible development

The use of sustainable products is becoming more important in light of increasing environmental protection measures and regulations. corrender reduces the metallic coating thickness while simultaneously increasing the level of corrosion protection, thus making a valuable contribution to the conservation of natural resources.

# Making the conversion the right way

## voestalpine expertise

Since 2007, voestalpine has been making serial deliveries as one of the pioneers in introducing zinc-magnesium coatings to the European market. No other company has a more comprehensive understanding of zinc-magnesium coatings than voestalpine. Numerous laboratory experiments, natural weather testing, a significant number of real applications and joint processing trials at the customer have built the foundation for profound understanding of the product and its properties.

Our professional specialists will be happy to assist you in making the conversion.

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## Technically more advanced. Successful together. voestalpine Steel Division – the partner you can trust.

High-quality materials are the basis for our products. We strive to be the best partner for our customers and want to provide them with the best-possible solutions. We focus our expertise on two aspects:

The personal aspect, with dedicated and highly competent employees

The technical aspect, with high-quality methods, products and services

The companies in the voestalpine Steel Division and their employees understand partnership to be the following:

- Understanding for their customers' business
- Expertise and reliability
- Responsibility for satisfactory project completion
- Partnerships based on trust

Many years of successful partnerships with our customers prove our point.

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