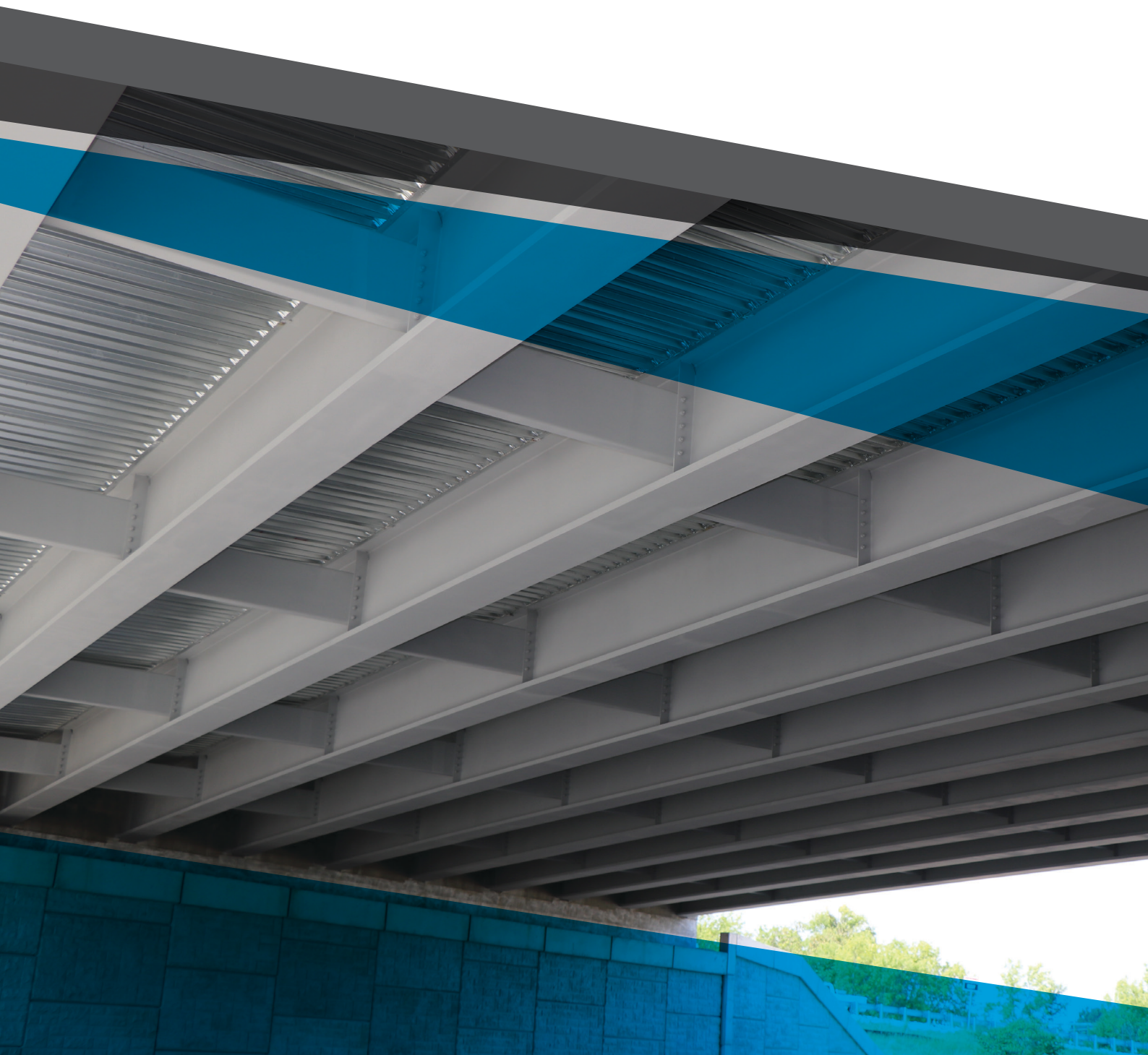


Armorlast[®] duo coat inorganic corrosion protection system

Superior protection in a longer-life, lower-maintenance package



Pioneers of inorganic protective coatings

Carboline changed the rules with its introduction in the 1960s of Carbozinc 11, the first inorganic zinc-rich primer capable of self-curing. Since then, it's earned an impressive reputation of long-life protection of structural steel in harsh exterior service.

Today, **Carbozinc 11 series primers + Armorlast series** mark another step-change in steel asset protection.



Nimble system packs superior performance

Traditional structural steel coating systems consist of a zinc-rich primer, an epoxy intermediate, and a urethane finish coat.

But the Armorlast system provides improved performance because both coats are based on inorganic resins that do not degrade when exposed to UV radiation. The result is a longer service life for the coating that can match an asset's design life and reduce maintenance painting requirements.

In addition, a duo coat corrosion protection system accelerates shop throughput and compresses production schedule, potentially leading to time and money saved.



Key benefits

- > Duo coat system accelerates application throughput vs. traditional three-coat
- > Isocyanate-free
- > Zinc-based primer formula offers excellent corrosion protection
- > Meets Class B slip coefficient
- > Favorable cost and performance compared to common alternatives
- > Inorganic composition provides excellent weatherability and UV stability

Armorlast in action at NASA

Carboline's Armorlast system is integral to the performance of new launch support infrastructure at NASA's Kennedy Space Center in Florida.

Starting with Artemis IV in 2028, crewed moon missions will lift off from the new ML-2 launcher, designed to support taller, more powerful Block 1B and Block 2 rockets. NASA chose the Carbozinc 11 + Armorlast system to withstand Florida's corrosive humid coastal environment.

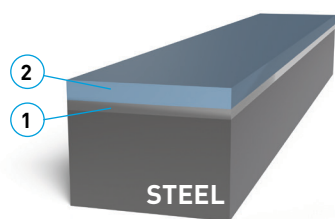
The Agency knows the technology well: Carbozinc 11 was applied to structural steel inside its Vehicle Assembly Building in 1966 and still performs today.

Scan to read more.



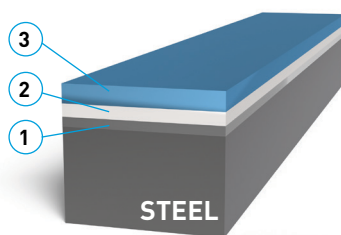
Photo credit: NASA

Armorlast Duo Coat System



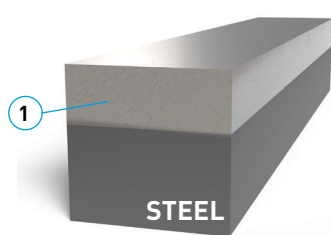
- ① Inorganic zinc primer
- ② Inorganic finish coat

Traditional 3-Coat System



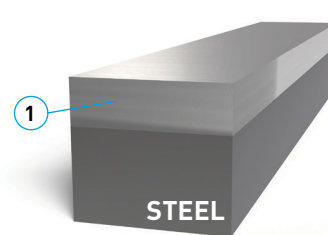
- ① Zinc primer
- ② Epoxy midcoat
- ③ Urethane topcoat

Thermal Spray Metalizing



- ① Zn, ZnAl, or Al TSM

Hot-Dipped Galvanizing



- ① Zn HDG

Armorlast duo coat inorganic corrosion protection exceeds traditional three-coat performance. It offers comparable performance to HDG and TSM at a more favorable cost and maintenance regime.

Hold your corrosion protection system to a higher standard



Traditional three-coat "passing" system in ISO 12944-9 CX.



The new standard for corrosion protection:
Armorlast passing 12944-9 CX four times



A sustainable solution for modern corrosion protection

The Armorlast system helps meet sustainability objectives by reducing pollutants related to material manufacturing and transportation, and reducing waste and cleanup associated with more frequent maintenance and touch-ups of organic-based coatings.

GLOBAL COATINGS LEADERS™

RIGHT PEOPLE • RIGHT PRODUCTS • RIGHT LOCATIONS

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