



EONCOAT[®]

EonCoat is a Fundamentally Different Coating Technology



A chemically bonded phosphate ceramic, EonCoat provides two layers of protection to permanently prevent carbon steel from corroding.

What Is EonCoat?

EonCoat is a spray-applied industrial coating that prevents rust on carbon steel. It phosphates the steel it comes in contact with, forming an amorphous magnesium iron phosphate layer.

This true alloy—chemically bonded to the steel—is the first line of defense against corrosion.

Then, a white ceramic layer forms over the alloy layer. This ceramic layer, a second line of defense, provides a reservoir of phosphate corrosion protection to continuously maintain the alloy layer.

EonCoat is...

- Corrosion-Proof
- Abrasion-Resistant
- Chemical-Resistant
- Fire-Resistant
- Antimicrobial

How Does It Work?

EonCoat replaces traditional industrial coatings that merely serve to delay the onset of corrosion. Its superior performance is due to the fact that, unlike polymer coatings, EonCoat chemically bonds to steel so that corrosive elements cannot penetrate the alloy layer.



Iron Phosphate Layer

As EonCoat is spray-applied onto carbon steel, the acid in EonCoat converts the top layer of steel into an inert iron magnesium phosphate so that the steel can no longer corrode. This is the first line of defense EonCoat delivers.



Ceramic Layer

The second layer of protection delivered by EonCoat is a 20-mil thick ceramic shield that serves as a phosphate reservoir to continuously re-phosphate the steel to insure that the alloy layer remains intact. This ceramic layer is chemically bonded to the iron phosphate alloy layer.



The Alloyed Steel Will Not Corrode

Traditional barrier coatings fail because they sit like a tarp over the steel, and once the tarp is torn and moisture enters, the steel corrodes. By definition, barrier coatings always fail, because once a barrier coating is compromised corrosion spreads like a cancer. EonCoat is not a barrier coating. It is self-healing. If the ceramic is scratched or chipped, it has no effect on the corrosion protection of the alloy.

No Barrier Coating In The World Provides This Self-Healing Ability To Re-Alloy Steel.

Corrosion Protection For The Energy Industry & Beyond

Tank farms, natural gas pipelines, fuel oil storage facilities—when it comes to protecting mission-critical steel assets, EonCoat is the preferred provider to the energy industry.

EonCoat delivers the following benefits to customers worldwide:

- Cost savings with faster and less expensive surface preparation and application
- Cost savings with faster return to service
- Application in a far wider temperature, humidity, and weather range
- Cost savings with permanent corrosion protection
- Cost savings by eliminating the need for future surface preparation and application
- The protection of a 30-year product replacement warranty
- No VOCs, no HAPS, no odor, no flash point, and zero flame spread
- Increased protection of surrounding assets by eliminating overspray



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About The Company

EonCoat, LLC is headquartered in Raleigh, North Carolina adjacent to North Carolina State University in the technology region known as 'The Research Triangle'. EonCoat is focused on preventing corrosion on a wide scale, and the company only works with corporations of significant size, often those that are publicly traded with multinational operations.

In addition to direct corporate accounts managed by EonCoat, LLC, the EonCoat anti-corrosive coating is also sold in various parts of the world through a tightly controlled network of independent distributors. Only applicators trained and certified by EonCoat are authorized to apply the coating.

EonCoat's market focus is the energy industry, and the company actively services customers in North America, Europe and Asia.

Our Affiliates



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Patented Products

EonCoat®

U.S. Patent No. 8858702

U.S. Patent No. 8557342

other US patent applications pending.

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