

# EONCOAT™

## OFFICIAL E-BOOK



## 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. These 2 layers of protection come with one coat.

## WHAT IS EONCOAT?

EonCoat is a spray-applied industrial inorganic 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 is chemically part of the steel & will not react with the elements eliminating the threat of corrosion. A white ceramic layer forms over the alloy layer. This layer, the second line of defense, provides a huge reservoir of phosphate to protect and repair the alloy layer.



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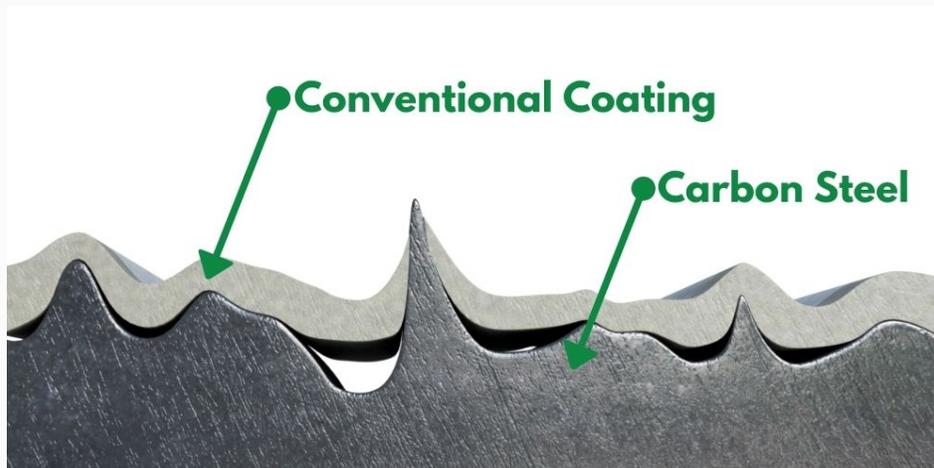
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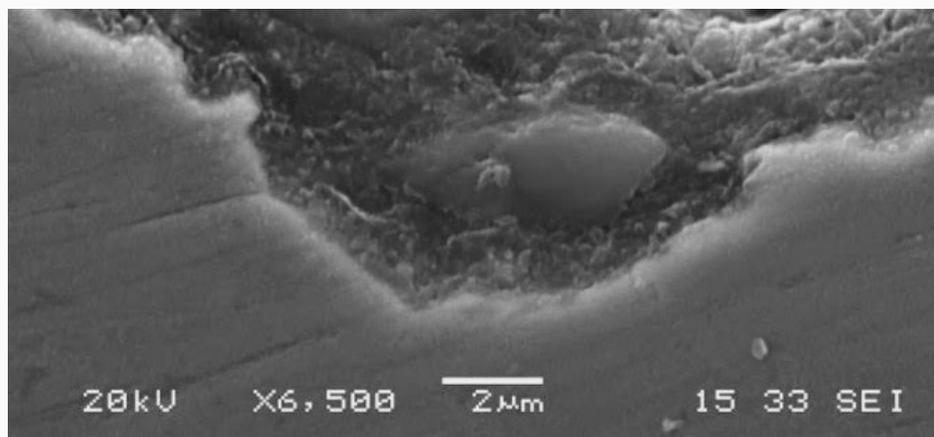
## EONCOAT IS NOT PAINT

Traditional barrier coatings fail because they sit like a tarp over the steel. Inevitably the tarp gets torn, moisture enters, and the steel corrodes. EonCoat chemically bonds to steel & is NOT a barrier coating.

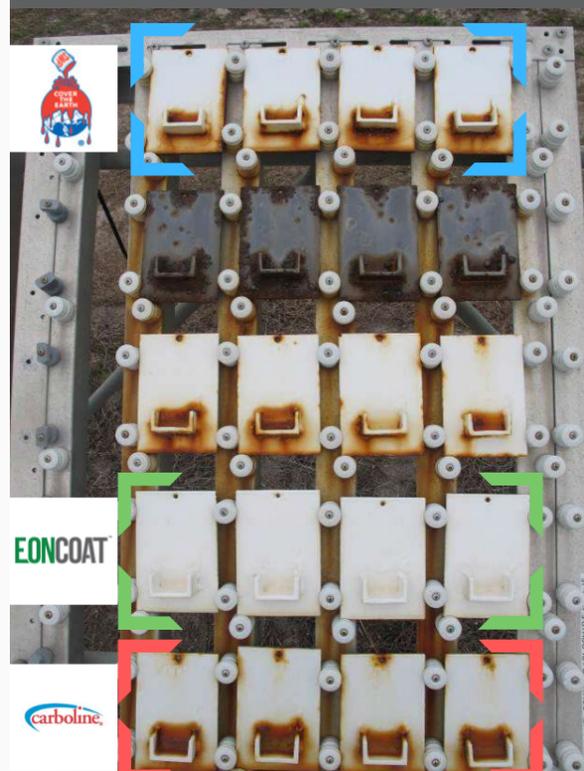


## IRON PHOSPHATE LAYER

The Magnesium Iron Phosphate alloy layer is about 5 microns thick. That may not seem like a lot, but it is a thousand times thicker than the protective layer that forms on stainless steel. Electron microscopy clearly shows the chemical bond that results from the steel reacting with the patented EonCoat formula. The resulting alloy is a permanent protective layer against corrosion.



NASA compared us to traditional coatings.

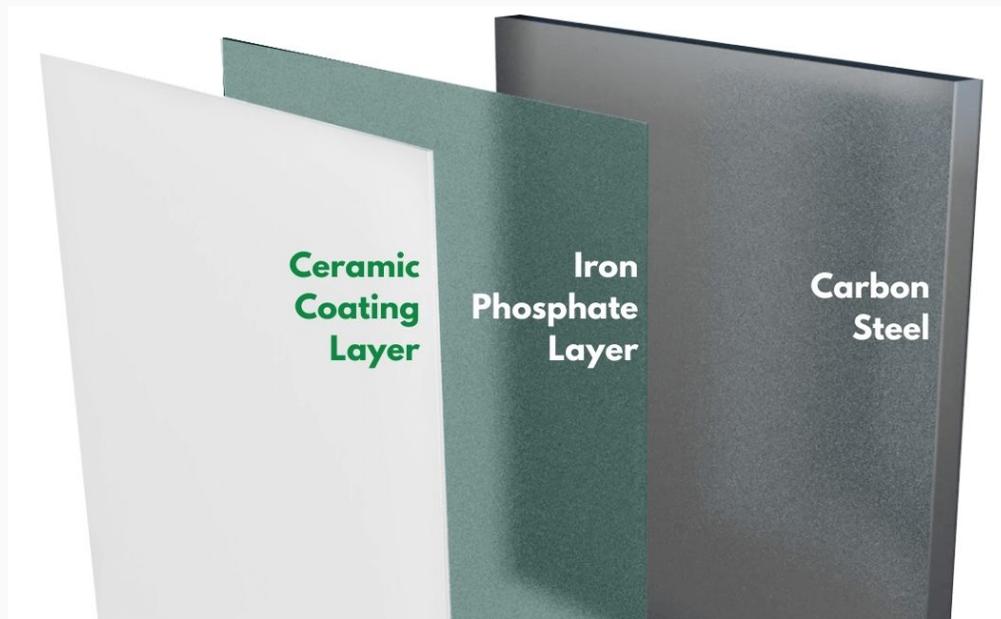


To Learn More About This Visit:  
[eoncoat.com/nasa-coating-evaluation/](http://eoncoat.com/nasa-coating-evaluation/)



## CERAMIC LAYER

The second layer of protection delivered by EonCoat is a 20-30 mil thick ceramic shield that serves as a phosphate reservoir to continuously re-phosphate the steel in case the alloy layer is damaged. This ceramic layer is chemically bonded to the iron phosphate alloy layer. The ceramic is very hard and provides strong abrasion resistance and high impact resistance.



## EONCOAT IS...

- Corrosion-Proof
- Abrasion-Resistant
- Chemical-Resistant
- Fire-Proof
- Anti-Microbial

Two Layers of  
Corrosion  
Protection  
with a One  
Coat System





## HOW IS EONCOAT APPLIED?

- The asset you are trying to protect must be made of carbon steel.
- The Carbon Steel needs to be sandblasted to NACE 3 / SSPC-SP 6. Unlike a traditional coating, the blast does not need to be held.



- Pressure wash the sandblasted surface to remove media & debris. Flash rusted & surface rusted steel can be coated with EonCoat.
- Use a Two-component 1:1 Plural Pump with stainless steel lowers to apply 1 coat of EonCoat. The coating should be over 20 mils thickness.
- EonCoat's corrosion protection comes in white, for aesthetic reasons you could apply a topcoat with your color of choice.



Graco XP50  
Plural Pump or  
Similar can be  
used for  
EonCoat.



## DIFFERENT TYPES OF EONCOAT

All the EonCoat products have the same fundamentals. However, different products were designed for different applications. The three products we currently offer are EonCoat Corrosion Protection Coating, EonCoat Weldable Coating, & EonCoat CUI Coating.



### EONCOAT CORROSION PROTECTION COATING

- Superior Corrosion Protection
- Best Finish
- Great for Large Steel Assets like Storage Tanks & Certain Pipe Lines



### EONCOAT WELDABLE COATING

- Superior corrosion protection before & after welding
- Rated for up to 600°C (1112°F)
- Great for Tank Bottoms, including the soil facing side, or any carbon steel that needs welding.



### EONCOAT CUI COATING

- Superior corrosion protection
- One coat, sprayable CUI coating
- Rated for up to 450°C (842°F)
- Great for insulated tanks, & insulated pipelines with extreme temperatures.

# DO YOU WANT TO LEARN MORE?

## INNOVATIVE TECHNOLOGY REQUIRES MORE EXPLANATION

We realize when something is new it can take a little longer to understand. So we are going to offer you some additional information in smaller bites.

When you signed up for this E-Book you also signed up for an EonCoat Crash Course. Over the next few days, you will receive an email a day. These emails will break down a topic about EonCoat. By the end of the week, you will fully understand EonCoat. It is just an email a day. If you find them annoying you can always unsubscribe.

If you are ready to move forward with EonCoat. Contact us through the Contact Us Page in EonCoat.com or Call us.

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