

EONCOAT®

Product Data Sheet

Product Description		Product Characteristics			
<p>EonCoat® is a 100% solids Zero-VOC (Volatile Organic Compounds), No HAPs (Hazardous Air Pollutants), inorganic primer/finish. It contains our proprietary molecular bonding technology that creates an impenetrable covalent bond with the steel substrate. EonCoat forms two layers of protection just seconds after it is applied through a plural component sprayer. The inner layer forms the permanent molecular bond with the ferrous ions in the steel; the protective outer layer is a flexible ceramic that will provide excellent protection and bond extremely well with any topcoat or can remain uncoated. This coating is fundamentally different than other commercially available protective coatings.</p>		Color: White	Sheen: Flat		
		Mixing Ratio: 1:1	Clean Up: Water		
		Volume Solid: 95±5 %	Thinning: Do Not Thin		
Product Coverage					
<p>Theoretical Coverage: @ 1 mil Dry Film Thickness (DFT): 1600 ft²/gallon. @ 20 mil DFT: 80 ft²/gallon Specified DFT = 20 mil – 4 mil Note: Brush or roll application is not possible due to short pot life when part A and B are mixed.</p>					
Product Features			Application Conditions/Dry Time		
<p>EonCoat contains no hazardous chemicals and is easy to apply as a 1:1 mix through a plural component sprayer. There is no wasted material, no risk of overspray beyond four feet, and no dew point restrictions. EonCoat is dry to recoat in minutes or return to service in 1 hour. It will not turn yellow over time as it contains no carbon and it is suitable for continuous exposure to chemicals ranging in pH from 6 – 11. Because of its covalent bonding technology, EonCoat will never present “edge creep”, and exhibits a self-healing capability should the coating surface ever be damaged.</p>			Temperature of substrate:	40-120F	
			Humidity :	30-95% Call for instruction outside of this range	
			Dry Time @ 20 mil coating:	5-10 min to touch 15-25 min to handle ~1 hr. return to service	
			Full Cure:	24 hours (Note: full cure is temperature, humidity and thickness dependent)	

Typical Application

EonCoat can be applied to any properly prepared steel structure including: bridges, tanks, pipes, water treatment facilities, refineries, waste water treatment facilities, marine facilities, offshore platforms, transportation equipment, OEM, food processing, power generation facilities, hospital equipment and facilities. It also can be applied on Styrofoam to impart zero flame spread and flame smoke generation property. For further information please contact EonCoat representative.

Storage Conditions & Safety Precaution

Store in 45-110F in warehouse. Avoid direct sunlight for prolonged period of time.

Shelf Part A: 1 year
Life: Part B: 1 year

Safety Precaution: Refer to the MSDS of each component.

For additional information contact:

EonCoat, LLC
551 Pylon Drive
Unit # D
Raleigh, NC 27606
Phone: 754.222.4919
www.eoncoat.com

Physical Properties			Surface Preparation		
Test	Method	Results	Type of Surface	Condition of surface	Standard
Abrasion Resistance	ASTM D 4060 CS-17 Wheels with 1 kg weight on each arm	2000 Wear Cycle per Mil 130 mg mass loss			Surface must be clean and free of standing water and loose debris, particles, or poorly adhered paint, mill scale and other remaining finishes. Before blast remove all oil, grease and dust to insure proper adhesion.
Adhesion (Pull off strength) For Ceramic layer	ASTM D 4541	550 PSI			
Flexibility	ASTM D 522	19%	White metal blast	New/mill scale	SSPC-SP5/ NACE 1
Pencil Hardness	ASTM D 3363	9H	Near white metal blast	New/ unused w/ rust over the mill scale	SSPC-SP10/NACE2
Impact Resistance	ASTM D 2794	140-160 Inch-Pound	Commercial blast	In service/ previously coated	SSPC-SP6/ NACE3
Water Vapor Transmission	ASTM E96	2.5 Perm-Inch	Brush-off blast	Uniform layer of rust	SSPC-SP7/NACE 4
Thermal Conductivity		0.239 W/ m K @25C			
Flame Spread and smoke generation	UL 723	Zero Flame spread and Zero smoke generation			Generally, NACE 3 is recommended surface prep, but for further information please contact EonCoat.
Fire Resistance	EN 13823	B-s1, d0 Classified as B or better			
Chemical Resistance	ASTM D1308	No effect with most organic solvent. Not recommended for long term exposure to acids.			
Resistance to Growth of Mold	ASTM D3273	Rating -10 = Passed			

*Warranty: EonCoat, LLC, warrants that if applied by an EonCoat certified contractor the coating fails within **30 years** of documented application, EonCoat, LLC, will replace the coating at their cost. No other warranty or guarantee of any kind, implied or expressed is made by EonCoat, LLC. Please see the written EonCoat, LLC limited warranty available at www.eoncoat.com for details.*

For additional information contact:

EonCoat, LLC
551 Pylon Drive
Unit # D
Raleigh, NC 27606
Phone: 754.222.4919
www.eoncoat.com