

CorrSafe: Improved Coating for Exterior Corrosion Protection



CORRSAFE™ is the next generation in exterior corrosion protection for SIGMA's wedge action pipe restraint products, such as the ONE-LOK™. CORRSAFE is a cationic epoxy base coating applied to the restrained joint product using a time tested electrodeposition process. It is a low VOC product that is free from heavy metals and bonds very well to ductile iron.

Features:

- Low VOC
- No Heavy Metals such as lead or chrome.
- High Impact Resistance
- Highly Corrosion Resistant
- All components are top coated to provide an extra layer of protection from scrapes and scratches during installation.
- ONE-LOK Wedge segments and actuating bolts top coated in blue for easy identification of CORRSAFE protected product.
- Recognized under UL 1332
- Six step process

Property	Test Method	Performance
Color	-	Black
Film Thickness	-	0.5-1.5 Mils
Pencil Hardness	ASTM D3363-05	2H Minimum
Crosshatch Adhesion	ASTM D3359-02	4B-5B
Direct Impact	ASTM D2794-93	100 in-lb. minimum
Gravelometer	GM9508P	6 minimum
Salt Spray (scribed) - 500H	ASTM B117-03	0-1mm
Salt Spray (scribed) - 1,000H	ASTM B117-03	0-2mm

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Suggested Specification for Protective Coatings on Wedge Action Type Restraints

Protective coatings for Wedge Action Restrained Joint products shall consist of a low VOC cationic epoxy that is free of heavy metals, such as lead and chrome. The coating shall be applied by an electrodeposition process utilizing an multiple stage substrate preparation process that includes, at a minimum, degreasing, zinc phosphating, sealing and deionized water rinsing as appropriate for the cationic epoxy product. Coating systems shall be of a nominal thickness that will not interfere with the interaction of threaded components, which may vary the fracturing torque of the breakaway bolt heads.

The protective coating system must exhibit the following minimum film properties:

- 2H Minimum Pencil Hardness (ASTM D3363)
- 4B-5B Minimum Crosshatch Adhesion (ASTM D3359)
- 100in-lb minimum direct impact resistance (ASTM D2794)
- 60in-lb minimum reverse impact resistance (ASTM D2794)
- 6 minimum gravelometer abrasion resistance (GM9508P)
- 1mm maximum creep in 500 hour Salt Fog (scribed) (ASTM B117)

The cationic epoxy shall be topcoatable and recognized under UL1332. Wedge Action Restraints shall be color coded for easy identification for use on either ductile iron or PVC pipes, and shall be topcoated to help protect the cationic epoxy coating from damage due to scratching, impact, or other field conditions. Protective coating system shall be CORRSAFE™ as manufactured by SIGMA CORPORATION or prior approved equal.

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