

Shield Products

METAL

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SUPERIOR SHIELD MAKES AN EXCELLENT COATING FOR METALS IN CORROSIVE APPLICATIONS

Shield Products has solved problems in many industries and applications. The water works industry takes advantage of the superior corrosion resistance properties by coating T-head bolts for underground service. Stainless steel fasteners, used in many different industries, are coated for lubricity and anti-galling. These metals are commonly used by turn around groups, operations and maintenance departments. Contractors at many chemical plants, refineries and offshore platforms find many uses. The coatings chemical resistance and easy on/easy off characteristics are perfect for these environments. A few specific applications where problems have been solved by using this coating process are listed below:

IF IT'S METAL, YOU CAN COAT IT AND GET YEARS OF PROTECTION!

Oxygen Service	Boiler Rooms	Copper/Brass
Monochlorobenzene (MCB)	Aniline	Steel w/wo Primer
Anhydrous HCL	Piping (Non-Insulated)	Stainless Steel
Phosgene Gas Lines	Gas Meters	Fuel tanks-In and out
Formaldehyde	Steam	Protects Painted Objects from fading and Oxidizing.
Water Lines Insulated	Piping	

TECHNICAL DATA:

Use Temperatures: -100° to 500°F

Adhesion: 5B (ASTM D3359-95)

Corrosion Resistance: Salt Spray (ASTM B117)
Test to 4,000 hrs.

Dielectric Strength: 500 Volts per mil

Pencil Hardness: 8H (ASTM D3363-92A)

Elongation: 50%

Kinetic Friction Coefficient: 0.06 - 0.08

Tensile Strength: 4,000 psi

Thickness: Nominal 2 Mils Wet = 1 Mil Dry

Operating Pressure: Up to 100,000 psi

Impact: 160 Inch Lbs.

Kestemich Test: (ASTM D2794-93) Nuts not frozen after 30+ cycles (DIN 50018)

Coverage: 802 sq. ft. @ 2 Mils Wet

CORROSION RESISTANCE:

D1308 Muriatic Acid 31% HCL 24 Hours No Effect

D1308 Sulfuric Acid 93% H₂SO₄ 24 Hours No Effect

D1308 Caustic Soda 100% NaOH 24 Hours No Effect

D1308 Methyl Ethyl Keytone (MEK) 24 Hours No Effect

D1308 Salt Fog 1000 Hours No Effect

SUPER SHIELD - A COATING PROCESS FOR THE FUTURE!

Shield Products has perfected the Fluoropolymer process for coating fasteners. Surface preparation is a very important step. Use the latest industry accepted methods to thoroughly clean all contaminants from the fasteners. Manufacturing oils, rust and scale are to be removed to ensure the highest quality coating.

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Crosslinker Specifications

Product Description:

Doc: 02

Crosslinker Specifications & Benefits 70014

Application:	Benefits:
Adhesives	Increases cohesive strength. Improves adhesion to difficult substrates, such as polyolefin, marble, stainless steel and glass.
Over Varnishes	Improves adhesion to various substrates. Increases scuff resistance. Increases water and chemical resistance.
Wood Coatings	Improves water and chemical resistance. Lower VOC formulation. Improves black heat resistance. Improves abrasion resistance.
Protective Films	Adhesion modification.
Plastic Films	Increases anti-static properties. Increases anti-blocking properties. Improves adhesion of coating.
Fluoropolymer Coating	Improves cohesiveness and adhesion. Improves water and chemical resistance. Improves rust proofing capability. Increases scuff resistance. Increases high temperature heat resistance