



System	<ul style="list-style-type: none">• 4 coats STEEL-IT1400D Polyurethane Aerosol –Safety Yellow• For harsh conditions, an additional 2 coats are recommended.• A single coat is 8 mils (0.008"; 205 microns) Wet Film Thickness (WFT) and dries to 1.5 mils (0.0015"; 38 microns) Dry Film Thickness (DFT) when applied at a swift moving speed across the surface.																				
Surface Preparation	<p>STEEL-IT coatings adhere to metal surfaces through mechanical adhesion and require a rough profile on the bare metal – ideally achieved by grit-blasting or power-sanding. The surface once properly prepared should feel like the striking area on a matchbox.</p> <ul style="list-style-type: none">• Surfaces should be clean and free of all rust, paint, greases, waxes, salts, dirt, scale, etc.• For best results, grit-blast to SSPC SP-6 (Commercial Blast).• Anchor pattern should be cut and angular at 1.5 - 2.0 mils deep (0.0015" – 0.0020"; 38-50 microns).• Power-sanding with a dual-action sander or random orbital sander using #36 grit sandpaper will achieve similar results on steel. After grit-blasting, blow any remaining grit material off using an air hose and/or solvent clean the surface with acetone or alcohol. Avoid using products that leave behind an oily residue (such as mineral spirits).																				
Ambient Conditions	<ul style="list-style-type: none">• Apply when ambient and substrate surface temperatures are 50 °F -120 °F (10 °C - 49 °C)• Relative humidity less than 85%• Temperature of substrate surface and coating are at least 5 °F (2.75 °C) above the dew point.• Climate conditions (e.g. high humidity or high aridity) will impact coating dry/cure time. Longer cure times may be necessary for higher humidity or colder climates. Spraying speed and technique may need to be adjusted.																				
Agitation	<ul style="list-style-type: none">• Shake the can vigorously for 2 minutes, ideally with a power shaker.• Shake the can continuously throughout the application.																				
Application Method	<ul style="list-style-type: none">• Spray from a distance of 12-16" (30-40 cm) making multiple passes to achieve proper coating wet film build.• Overlap the spray paint pattern by 50%.• Adjust the application speed according to climate conditions. <table><tr><td rowspan="2">1st COAT</td><td>AMOUNT TO APPLY:</td><td>8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)</td></tr><tr><td>AIR DRY TIME AFTER APPLICATION:</td><td>30 minutes - 1 hour</td></tr><tr><td rowspan="2">2nd COAT</td><td>AMOUNT TO APPLY:</td><td>8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)</td></tr><tr><td>AIR DRY TIME AFTER APPLICATION:</td><td>4 - 6 hours</td></tr><tr><td rowspan="2">3rd COAT</td><td>AMOUNT TO APPLY:</td><td>8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)</td></tr><tr><td>AIR DRY TIME AFTER APPLICATION:</td><td>30 minutes - 1 hour</td></tr><tr><td rowspan="2">4th COAT</td><td>AMOUNT TO APPLY:</td><td>8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)</td></tr><tr><td>AIR DRY TIME AFTER FINAL COAT:</td><td>5-7 days</td></tr></table>	1 st COAT	AMOUNT TO APPLY:	8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)	AIR DRY TIME AFTER APPLICATION:	30 minutes - 1 hour	2 nd COAT	AMOUNT TO APPLY:	8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)	AIR DRY TIME AFTER APPLICATION:	4 - 6 hours	3 rd COAT	AMOUNT TO APPLY:	8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)	AIR DRY TIME AFTER APPLICATION:	30 minutes - 1 hour	4 th COAT	AMOUNT TO APPLY:	8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)	AIR DRY TIME AFTER FINAL COAT:	5-7 days
1 st COAT	AMOUNT TO APPLY:		8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)																		
	AIR DRY TIME AFTER APPLICATION:	30 minutes - 1 hour																			
2 nd COAT	AMOUNT TO APPLY:	8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)																			
	AIR DRY TIME AFTER APPLICATION:	4 - 6 hours																			
3 rd COAT	AMOUNT TO APPLY:	8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)																			
	AIR DRY TIME AFTER APPLICATION:	30 minutes - 1 hour																			
4 th COAT	AMOUNT TO APPLY:	8 mils (0.008"; 205 microns) Wet Film Thickness (WFT)																			
	AIR DRY TIME AFTER FINAL COAT:	5-7 days																			

Additional Coats	<p>If applying optional additional coats for enhanced durability:</p> <ul style="list-style-type: none"> • Allow 4th coat to cure for 4-6 hours • Apply 5th and 6th coats with one-hour dry time in between • After applying 6th coat (final coat), air cure for 5-7 days
Wet/Dry Film Build	<ul style="list-style-type: none"> • For each coat, apply 8 mils (0.008"; 205 microns) Wet Film Thickness (WFT) to achieve 1.5 mils (0.0015"; 38 microns) Dry Film Thickness (DFT) per coat. • Use a Wet Film Thickness Gauge when the coating is wet to measure film build per coat during application. • For proper performance, the end total DFT of STEEL-IT coating applied should be 6 mils (0.006"; 150 microns) DFT. • For parts exposed to harsher conditions, we recommend achieving 9 mils (0.009"; 225 microns) total DFT. • We do not recommend using an electronic gauge to measure Dry Film Thickness. For an explanation, please refer to the FAQs on STEEL-IT.com
Dry Time and Recoat Windows	<ul style="list-style-type: none"> • Dry to touch: 1-2 hours • Tack-free to handle: 2 hours • Dry to recoat window: 4-24 hours • If more than 24 hours passes between coats, a light scuff-sanding using #400-600 grit sandpaper is required before applying an additional coat
Curing	<ul style="list-style-type: none"> • Full cure in 5-7 days after final coat • Recommended cure time can vary based on ambient temperature and humidity. • Air cure with ambient and substrate surface temperatures of 50 °F -120 °F (10 °C - 49 °C) • Heating to expedite curing time is not recommended and may interfere with proper cure. • Cure time required before part can be packaged or put into service depends on how the part will be used. Please refer to FAQs on STEEL-IT.com for details. • Cure and corrosion resistance is accelerated initially and will continue to improve over 4–6 week period.
Welding	<ul style="list-style-type: none"> • Allow a full 7-days cure before welding • TIG or MIG welding • Seamless touch-up with STEEL-IT Polyurethane Aerosol
Safety	<ul style="list-style-type: none"> • Wear a NIOSH-approved respirator with an organic vapor cartridge • Use nitrile gloves • Apply STEEL-IT in a well-ventilated area
Cleanup	<ul style="list-style-type: none"> • Use mineral spirits for clean up

Physical Properties

Property	STEEL-IT 1400D Aerosol
Color	Safety Yellow, satin finish
Weight (calculated)	12 oz/can (340 g/can)
Coverage @ 3 mil (0.003"; 75 microns) DFT*	6.5 sq ft/can (0.6 sq m/can)

* Values assume 20% loss due to overspray.

Safety Data Sheets (SDS) and Technical Data Sheets (TDS) are available online at: [STEEL-IT.com](https://steel-it.com)

Please contact us to discuss your specific application needs: contactus@steel-it.com

All users are responsible for conducting testing to determine the suitability of STEEL-IT Brand Coatings for the specific requirements of their applications.

STEEL-IT® is a registered trademark of Stainless Steel Coatings, Inc.

Version #: 02

Revision Date:

Issue Date: 26-Feb-25