



## Application Instructions

### STEEL-IT 1030D Polyurethane Aerosol – White

System	<ul style="list-style-type: none"><li>• 4 coats STEEL-IT1030D Polyurethane Aerosol – White</li><li>• For harsh conditions, an additional 2 coats are recommended.</li><li>• 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.</li></ul>																				
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"><li>• Surfaces should be clean and free of all rust, paint, greases, waxes, salts, dirt, scale, etc.</li><li>• For best results, grit-blast to SSPC SP-6 (Commercial Blast).</li><li>• Anchor pattern should be cut and angular at 1.5 - 2.0 mils deep (0.0015” – 0.0020”; 38-50 microns).</li><li>• 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).</li></ul>																				
Ambient Conditions	<ul style="list-style-type: none"><li>• Apply when ambient and substrate surface temperatures are 50 °F -120 °F (10 °C - 49 °C)</li><li>• Relative humidity less than 85%</li><li>• Temperature of substrate surface and coating are at least 5 °F (2.75 °C) above the dew point.</li><li>• 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.</li></ul>																				
Agitation	<ul style="list-style-type: none"><li>• Shake the can vigorously for 2 minutes, ideally with a power shaker.</li><li>• Shake the can continuously throughout the application.</li></ul>																				
Application Method	<ul style="list-style-type: none"><li>• Spray from a distance of 12-16” (30-40 cm) making multiple passes to achieve proper coating wet film build.</li><li>• Overlap the spray paint pattern by 50%.</li><li>• Adjust the application speed according to climate conditions.</li></ul> <table><tr><td rowspan="2">1<sup>st</sup> 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">2<sup>nd</sup> 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">3<sup>rd</sup> 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">4<sup>th</sup> 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 <sup>st</sup> COAT	AMOUNT TO APPLY:	8 mils (0.008”; 205 microns) Wet Film Thickness (WFT)	AIR DRY TIME AFTER APPLICATION:	30 minutes - 1 hour	2 <sup>nd</sup> COAT	AMOUNT TO APPLY:	8 mils (0.008”; 205 microns) Wet Film Thickness (WFT)	AIR DRY TIME AFTER APPLICATION:	4 - 6 hours	3 <sup>rd</sup> COAT	AMOUNT TO APPLY:	8 mils (0.008”; 205 microns) Wet Film Thickness (WFT)	AIR DRY TIME AFTER APPLICATION:	30 minutes - 1 hour	4 <sup>th</sup> COAT	AMOUNT TO APPLY:	8 mils (0.008”; 205 microns) Wet Film Thickness (WFT)	AIR DRY TIME AFTER FINAL COAT:	5-7 days
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<b>Additional Coats</b>	<p>If applying optional additional coats for enhanced durability:</p> <ul style="list-style-type: none"> <li>• Allow 4<sup>th</sup> coat to cure for 4-6 hours</li> <li>• Apply 5<sup>th</sup> and 6<sup>th</sup> coats with one-hour dry time in between</li> <li>• After applying 6<sup>th</sup> coat (final coat), air cure for 5-7 days</li> </ul>
<b>Wet/Dry Film Build</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Use a Wet Film Thickness Gauge when the coating is wet to measure film build per coat during application.</li> <li>• For proper performance, the end total DFT of STEEL-IT coating applied should be 6 mils (0.006"; 150 microns) DFT.</li> <li>• For parts exposed to harsher conditions, we recommend achieving 9 mils (0.009"; 225 microns) total DFT.</li> <li>• We do not recommend using an electronic gauge to measure Dry Film Thickness. For an explanation, please refer to the FAQs on <a href="https://steel-it.com">STEEL-IT.com</a></li> </ul>
<b>Dry Time and Recoat Windows</b>	<ul style="list-style-type: none"> <li>• Dry to touch: 1-2 hours</li> <li>• Tack-free to handle: 2 hours</li> <li>• Dry to recoat window: 4-24 hours</li> <li>• If more than 24 hours passes between coats, a light scuff-sanding using #400-600 grit sandpaper is required before applying an additional coat</li> </ul>
<b>Curing</b>	<ul style="list-style-type: none"> <li>• <b>Full cure in 5-7 days after final coat</b></li> <li>• Recommended cure time can vary based on ambient temperature and humidity.</li> <li>• Air cure with ambient and substrate surface temperatures of 50 °F -120 °F (10 °C - 49 °C)</li> <li>• Heating to expedite curing time is not recommended and may interfere with proper cure.</li> <li>• 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 <a href="https://steel-it.com">STEEL-IT.com</a> for details.</li> <li>• Cure and corrosion resistance is accelerated initially and will continue to improve over 4–6 week period.</li> </ul>
<b>Welding</b>	<ul style="list-style-type: none"> <li>• Allow a full 7-days cure before welding</li> <li>• TIG or MIG welding</li> <li>• Seamless touch-up with STEEL-IT Polyurethane Aerosol</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>• Wear a NIOSH-approved respirator with an organic vapor cartridge</li> <li>• Use nitrile gloves</li> <li>• Apply STEEL-IT in a well-ventilated area</li> </ul>
<b>Cleanup</b>	<ul style="list-style-type: none"> <li>• Use mineral spirits for clean up</li> </ul>

## Physical Properties

Property	STEEL-IT 1030D Aerosol
Color	White, 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](mailto: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