

SALT SPRAY

WE DON'T JUST MEET THE CODE.
WE EXCEED THE STANDARDS.

ClarkDietrich.com / ClarkDietrichEQ-IQ.com

OVERVIEW:

Results from salt spray testing reveal that

ClarkDietrich DiamondPlus® Coating not only meets the performance level of standard G40 steel—it far surpasses it.

Our DiamondPlus Coating process, which forms a permanent bond with the steel, provides tremendous corrosion resistance, resulting in these superior outcomes in test group averages data:

- ▶ Corrosion began on the G40 steel after 120 hours of salt spray (fog) testing, and it rapidly reached the 10% failure threshold at 221 hours on average.
- ▶ By comparison, DiamondPlus-coated samples did not climb above 3% surface rust, even after 240 hours.
- ▶ Further, each test was run to—and beyond—the 10% surface rust failure point of G40 steel. In averaged data, ClarkDietrich DiamondPlus-coated samples did not reach failure, even after hundreds of hours.
- ▶ Testing is conducted in accordance with ASTM B117 standards at the ClarkDietrich Research Center, an IAS Certified Laboratory.

We firmly stand behind all of our products. Further, we believe sharing up-to-date, verifiable information is vital to the strength of the industry and our relationships.

To learn more about these test results and the full trust you can put in ClarkDietrich DiamondPlus Coating, please contact our Technical Services experts at [888.437.3244](tel:888.437.3244).

CLARKDIETRICH DiamondPlus® VS. G40*

HOURS IN SALT SPRAY BOOTH	0 hrs	144 hrs	216 hrs	240 hrs
DiamondPlus	✓ PASS	✓ PASS	✓ PASS	✓ PASS
% SURFACE AREA RUSTED	0%	0.5%	1.8%	2.2%
G40	✓ PASS	✓ PASS	✓ PASS	✗ FAIL
% SURFACE AREA RUSTED	0%	3.8%	8.3%*	11.9%

SIDE-BY-SIDE LAB EVALUATIONS DEMONSTRATE THE TREMENDOUS CORROSION-RESISTANT PROPERTIES OF PROSTUD® WITH DIAMONDPLUS® COATING.



DiamondPlus
SURFACE RUST AT
240 HOURS



G40
SURFACE RUST AT
240 HOURS

*The point of failure is 10% per ASTM A1003. The source G40 product used in the salt spray (fog) testing was treated with hex-chrome chemical treatment, a post-production additive that increases corrosion resistance, provides product protection during shipment and is considered to be the industry standard.

ASTM B117: Salt Spray (Fog) Apparatus (all test group averages). Evaluated per ASTM D1654.

ClarkDietrich continually tests its products to obtain the most current test data. The information presented in this chart is based on the most recent test data available at the time of printing, effective 02/26/2016, and supersedes all previous information.

Technical Services: [888.437.3244](tel:888.437.3244)
support@clarkdietrich.com