



Z Guard™ 8,000 BLACK CHASSIS COATING

This wax based coating is intended to protect semi-trailer chassis components, often exposed to harsh, highly corrosive environments, requirements that far exceed automotive. This coating dries to form a firm hard film that exhibits excellent gravel, power wash, and impact resistance. The coating has been continuously improved over the product lifetime to resist the modern road salts, including magnesium, calcium, and potassium chlorides. The coating is low VOC with no HAPS. The latest revision of SAE J2721, for commercial trucks, requires coatings, intended for chassis components, to be exposed to SAE J400 gravel test, where high velocity stones are thrown at the film of coating, *before* cyclic exposure to the corrosive salt solutions. Consequently, excellent gravel resistance is vital for long term performance.

DURABILITY TEST

REQUIREMENTS AND RESULTS

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| Chip Resistance, SAE J400 @ 77° F | 7A |
| Chip Resistance, SAE J400 @ -20° C | 7B |
| SAE J2721 Cyclic Corrosion (Commercial Vehicles) 80 cycles. After SAE J400 gravel exposure. | Rating 2 Gen surface corrosion present but no significant attack Mass Loss from test was 2.7×10^{-3} g/mm ² equivalent to 15 yrs. service |
| SAE J2334, after SAE J400 gravel 60 cycles Chrysler CS Corrosion. | Rating: 2 (light rust at paint chips) coupon mass loss = 5.1×10^{-3} g/mm ² (ave) mass loss from coupons 5.4x50.8x3.18mm was 19.4 grams |
| GMW 14872 (global spec superseding GM 9540 P) (UH) Exposure E, 105 cycles. | mass Loss from test was 14.33 grams. Rated per GMW 15357 Rating: 8 (three small rust spots) |
| Neutral Salt Spray ASTM B117 2000 hours. Hot Rolled Trailer Steel. | Evaluated per ASTM 1654 Procedure A, Creepback from scribe. Test Results Rating 10: <0.1 mm creep. Unscribed area evaluated by ASTM 1654 Procedure B: Rating 8 (~ 1% failure). |
| High Pressure Wash Resistance | 3800 psi, medium tip, 65oF No Removal |
| Fire Resistance, Mil C-62218A | Dry film is self-extinguishing |
| High Temperature Resistance | Dry film will not flow at temperatures below 450° F |
| QUV ASTM G 154-12, Cycle 2 | 100 hrs. Rating of 6 per ASTM D1654 Proc. B |

(tested on semi-trailer hot rolled steel test panels after 7 days air dry at 5 mils (125u) dry.)

www.ztechprotection.com

Z TECHNOLOGIES CORPORATION

World Leaders in Corrosion Protection

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PHYSICAL PROPERTIES

Z Guard™ 8,000

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| Color | Black |
| Dry Time at 77° F, moderate air flow | To touch-1 hr., fully dried - 24 hours |
| Wet Film | No sag at 30 or less mils |
| Dry Film | Firm/Flexible |
| Wt. per Gallon (lb./gal.) | 11.5 |
| % Solids | 79.1 (by weight) 68.8 (by volume) |
| Flash Point | 104° F (40° C) Min Setaflash |
| Viscosity (Brookfield #5 Spindle) | 1800 - 2000 @ 20 rpm |
| V.O.C. | 2.4 lbs/gal |
| V.O.C. lb/gal (less EPA Exempt solvents) | 2.4 lbs/gal |

PREPARATION AND USE

Z Guard™ 8,000 is supplied ready to use, direct from the container. However, after storage for more than three months from date of packaging, depending on the temperature of storage, some agitation may be required. The package label displays the date of packaging. For optimum process ease, material should be 60°-90°(F) for application. Z Guard™ 8,000 was tested on semi-trailer hot rolled steel, without any metal preparation. Metal should be free of loose dirt or process oils as these contaminants would be expected to attenuate the protection. The product is normally applied by airless spray in ambient temperatures between 60 to 90F using a 317 tip. Z Tech applications department is available to assist in equipment support. For optimum protection, dry film thickness should be 5 mils dry (7-8 mils wet). Coverage at this thickness is about 200 sq. ft. per gallon (at 100% transfer efficiency). A good clean-up solvent is Mineral Spirits.

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