



RUST BULLET® DURAGRADE™ CONCRETE ULTRA LOW VOC ENGINEERING DATA SHEET

PRODUCT DESCRIPTION

Rust Bullet® DuraGrade™ Concrete Ultra Low VOC is a high-performance concrete coating that can be applied directly onto concrete surfaces without any acid etching. DuraGrade is a single component urethane resistant to UV rays, acid splash and chemical solvents. Ideal for any indoor or outdoor concrete surface. Due to its UV resistance and adhesion properties, DuraGrade requires no topcoat or base/primer coat. Apply by brush, roller, or spray equipment. VOC compliant in all 50 states and Air Quality Management Districts.

TYPICAL USES

DuraGrade Concrete Ultra Low VOC provides superior protection for both indoor and outdoor concrete surfaces. Typical applications include: garage floors, patios, basement, parking structures and more. Can be used with decorative flakes. Most garage projects can be completed with two coats in just one day. Anti-skid can be added for a slip resistant surface.

ADVANTAGES

- Easy to Apply – Ready to Use
- Does Not Require Acid Etching
- Single Component
- Outstanding Adhesion
- Excellent Resistance to Weather and Mechanical Abuse
- Excellent Chemical and Road Salt Resistance
- No Hot Tire Pickup
- Self-leveling

SPECIFICATIONS

Weight per gallon: 9.3 – 9.5 lbs

Color: Grey Aluminum

Finish: Glossy

Flash Point: 123°F

Viscosity: 240-300 cP

Theoretical coverage: Approx. 300 sq. ft./gal/coat, depending on porosity of concrete

Solids by Volume: 71% +/- 2%

Recommended DFT: Min. 6 mil; 12 mil for commercial, industrial or marine applications

VOC Content: 49 g/l

Application Methods: Brush, Roll, or Spray

Cure Times: Varies with relative humidity, temperature and thickness of film

- Dry-to-Recoat: 2 to 6 hours
- Dry-to-Handle: 2 to 6 hours
- Full Cure: 72 hours

Shelf Life: Approx. 2 years un-opened; 1 month for opened containers; Up to 6 months if sealed with Bloxygen

Application Temp: 35°F-110°F (2°C-43°C)

Compatibility: With most other coatings; Always refer to the coating manufacturers guidelines for application and compatibility

Testing:

- Taber Abrasion (ASTM D4060): 38 mg / 1,000 Cycles
- Impact Resistance (ASTM D2794): >40 inches (exceeds max test limits)
- Mandrel Bend (ASTM D 522-13): >32% without cracking (**exceeds test**)
- Pull-off Adhesion Bond Strength (ASTM D7234-05):
 - 50mm dolly: >525 PSI (Dollies unable to be removed at ~525 max psi)
 - 20mm dolly: >1485 PSI (the concrete broke apart before DuraGrade lost adhesion)

SAFETY INFORMATION

Avoid ingestion, inhalation and contact with skin or eyes. The use of safety glasses and nitrile gloves is recommended. When brushing, rolling or spraying, appropriate NIOSH approved respiratory protection is recommended. See [Safety Data Sheet](#) for complete safety data before use, available at www.RustBullet.com. It is the applicator's responsibility to understand these safety precautions and the work environment, to protect themselves and/or others.

SURFACE PREPARATION

The concrete substrate must be structurally sound and thoroughly clean and completely dry. Remove loose paint, moisture, dirt, mildew, oils, wax, loose particles, and other debris before coating. New concrete must be cured for at least 30-90 days depending on climate. Surfaces with tight existing paint or sealants or very smooth or power troweled should be sanded or ground. All repairs should be completed and allowed to fully cure prior to application. Be sure all repair materials are paintable. Adhesion and calcium chloride moisture tests should be performed and outstanding issues fixed prior to application. For more information contact us at:

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LIMITATION OF LIABILITY

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