



# Rust Bullet® DuraGrade Clear APPLICATION GUIDELINES

Rust Bullet® DuraGrade Clear provides superior protection for metal, concrete, wood and other types of surfaces, and is ultra-low in VOCs - compliant with VOC regulations in all 50 states and air quality management districts. To ensure you achieve the best possible results, it is extremely important you read and understand these Application Guidelines thoroughly before use. Please refer to the most current Application Guidelines available at [www.RustBullet.com](http://www.RustBullet.com) or by calling Rust Bullet Customer Support at 800-245-1600.

## **SURFACE PREPARATION**

The proper surface preparation prior to applying DuraGrade Clear will ensure optimum performance. Before application, the substrate must be structurally sound and thoroughly clean and dry. Remove loose rust, loose paint, moisture, dirt, mildew, oils, wax, loose particles, and other debris before coating. New concrete must be cured for at least 30 days. Concrete surfaces with tight existing paint or sealants or very smooth or power troweled should be sanded or ground. Be sure all repair materials are paintable. On concrete surfaces, adhesion and calcium chloride moisture tests should be performed and outstanding issues fixed prior to application.

## **PRODUCT PREPARATION**

**IMPORTANT: FAILURE TO FOLLOW STIRRING PROCEDURE BELOW MAY RESULT IN POOR COATING PERFORMANCE**

Do not open and stir DuraGrade Clear when the coating's temperature is below 32°F (0°C). DuraGrade Clear must be stirred thoroughly until completely uniform and homogeneous (approximately 1 minute). Do not shake or use electric or mechanical mixing devices that may whip air into the product. Stir thoroughly in-between coats if the coating has sat for any length of time.

## **GENERAL APPLICATION GUIDELINES**

DuraGrade Clear may be applied by brush, roller, or spray equipment. Refer to Application Guidelines at [www.RustBullet.com](http://www.RustBullet.com) for application equipment details. DuraGrade Clear has a theoretical coverage of approximately 250 – 300 square feet per gallon/per coat depending on the method of application and the porosity of the substrate. Recommended air or surface temperature should not be below 35°F (2°C) or above 110°F (43°C). Ideal application temperature is between 50°F (10°C) and 80°F (27°C) with humidity below 90%. Never apply DuraGrade Clear while raining or under threat of rain. Do not apply to surfaces when existing temperature of the surface exceeds 150°F (65°C) or is below 32°F (0°C). DuraGrade Clear should be applied to achieve at least a 10 mil wet film thickness, usually a 2-coat application. A minimum 15 mil wet film thickness is required for industrial, commercial and marine applications. Apply in even coats; the first coat must be generous enough to soak into the substrate beneath with a second coat of DuraGrade Clear applied to completely seal the first coat; this cannot be done with any other coating material, including other Rust Bullet coatings. High traffic areas may need additional coats. Average drying time between coats is 2 to 6 hours. It requires less time to dry on a humid day and more on a dry day. The previous coat should be dry to the touch. As soon as there is no transfer of coating to a gloved finger, you are ready for an additional coat. Ideally, apply the next coat as soon as the previous coat is ready. Do not exceed 12 hours between coats. If 12 or more hours have lapsed, wait for DuraGrade Clear to cure for at least 24 hours then lightly scuff with 150 grit (just enough to roughen the finish) before applying additional coats. **Note:** These drying times are meant to be a guide only; actual drying times can vary significantly based on film thickness, air circulation, temperature, relative humidity, and other factors.

## **ADDITIONAL APPLICATION GUIDELINES FOR CONCRETE**

Coat small sections at a time (4'x4'). Work at a steady pace, rolling a zig zag or a "W" pattern. Hastily rolling may cause roller marks. Apply a medium coat; too thick may cause bubbling and too thin may cause roller marks. Avoid excess buildup at the edges of the roller. At the end of the stroke, raise the roller a bit, so that it does not leave a mark. Move into the next area and blend it into the previously finished areas. If decorative flakes are desired, spread the flakes on the last coat of DuraGrade Clear (or DuraGrade Concrete if used) while still wet. Seal the flakes in with a coat of DuraGrade Clear. If a slip resistant surface is desired, mix an anti-skid additive into the last coat of DuraGrade Clear (follow the anti-skid manufacturer mixing directions.) When choosing an anti-skid material, it is important to choose one compatible with moisture-cure urethane. Roller marks/brush strokes may be visible on the completed application depending on the surface, applicator, application method, and/or equipment. Roller marks will not affect the performance of the coating. Adding a decorative flake and/or an anti-skid material to the project may decrease or eliminate the visibility of these marks. Though rare, different concrete mixtures could cause different finishes of DuraGrade Clear. Discoloration, film thickness variations, roller marks, etc. do not equal coating failure. Inexperienced applicators have potential to achieve different results as each concrete mixture is different and application techniques are unfamiliar.

## **SEE NEXT PAGE FOR CLEAN UP AND SAFETY INFORMATION**

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## CLEAN-UP, PRODUCT STORAGE AND HANDLING

Wipe off fresh, uncured coating immediately by using Rust Bullet Solvent or other compatible solvent. Cured product is removed with sandpaper or sharp tool. Avoid getting on skin, clothes, or any surface not intended to coat as Rust Bullet is permanent and after curing cannot be removed without abrasive action. Gloves and safety glasses are required during set up, application, and clean up. Application equipment must be cleaned immediately after use to avoid damage. Apply at package consistency. **DO NOT THIN OR ADD ANY OTHER PRODUCT TO DuraGrade Clear.** Partially used containers may be resealed using [Bloxygen](#) to preserve the product for up to six months. The shelf life of opened cans not re-sealed using [Bloxygen](#) is approximately one month. Limit the time the container is opened. Immediately wipe clean any coating from the rim of the container before resealing. Never pour a Rust Bullet coating that has been exposed to air or moisture back into the container. If a skin has formed in a new unopened container or a sealed container, remove by cutting edge of skin at the skin/container surface. Discard the skin properly. Stir until uniform, filter if necessary and apply. Rust Bullet coatings are packaged in unlined paint cans. If the coating is transferred to another container, a clean unlined paint can (or similar unlined metal container) must be used. Unopened cans have a shelf life of approximately two (2) years.

## SAFETY CONSIDERATIONS

Use with adequate ventilation, and if necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states. **IMPORTANT:** Protective clothing, gloves, and eye protection, etc. are recommended during set-up, application and cleanup; it is extremely difficult to remove Rust Bullet coatings from skin. Avoid open flames, pilot lights, sparks, heating elements, cigarettes, or any and all possible sources of ignition. ***For more complete coverage of safety issues refer to the GHS SDS at [www.RustBullet.com](http://www.RustBullet.com).***

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