

Application Guide for Ultra-Ever Dry®



Ultra-Ever Dry® SE is a solvent based two part (top and bottom) coating system. It is suitable for indoor or outdoor use. The system offers superhydrophobic and superoleophobic performance and has been shown to maintain a high level of performance under a variety of conditions and for extended time. The system is useful for non-wetting, anti-icing, self-cleaning, anti-bacterial, and for corrosion protection.

Ultra-Ever Dry® SE yields a matte finish surface that withstands moderate abrasion. The coating is translucent white in appearance depending on thickness used. Ultra-Ever Dry® SE is applied in two steps using an equal application volume of bottom coat and top coat.

CAUTION: Items coated with Ultra-Ever Dry® will have a translucent white appearance which could affect the color of the product being coated. **TEST ON AN INCONSPICUOUS AREA PRIOR TO FULLY COATING.**

Personal Protection Equipment:

Always wear the following equipment when applying:

- Respirator - NIOSH approved half-face respirator P100 rating with organic vapor cartridge
- Safety glasses/goggles
- Nitrile gloves

Application Equipment Options:

Option A: Pneumatic Sprayer

- Air compressor
- Conventional gravity fed, pneumatic sprayer, requires two separate sprayers
 - Note: Remove the pre-installed filters in the sprayer head
 - Air pressure = 20-35 psi (138-241 kPa) nozzle
 - Tip size = 0.020-0.050 inches (0.50-1.27 mm)

Option B: Pump Sprayer

- Two hand pump sprayers, one for top coat and one for bottom coat.
- Pumps must be compatible with solvent in coating. Xylene for bottom coat and Acetone for top coat.
- Adjustable tip size to provide fine mist.

Option C: Trigger Sprayer

- Two trigger sprayers, one for top coat and one for bottom coat. Usually available in quart (950 mL) sizes.
- Pumps must be compatible with solvent in coating. Xylene for bottom coat and Acetone for top coat.
- Adjustable tip size to provide fine mist.

Optional Equipment

- Heat gun or blow dryer to speed up drying process.
- Xylene for cleaning.

Spreading Rate (coverage):

250 sq ft/gal (23 m²/L)

Application:

Surface Preparation: Remove all oil, grease, dust, dirt, loose rust, and other foreign materials to ensure adequate adhesion of bottom coat. Sanding of the surface with 150 grit silicon carbide sand paper can enhance surface adhesion.

Step 1: Bottom Coat

Shake the can of bottom coat well and pour into dedicated sprayer. Once sprayer is filled to the desired amount, shake well and apply multiple thin and uniform coats to obtain a wet thickness of 3.0-5.0 mils (76-127 microns). This will form a dry film thickness of 1.0-1.5 mils (25-38 microns). Some agitation during application is recommended. Avoid over wetting or pooling. Allow 20 to 30 minutes of drying time before applying top coat. A heat gun or blow dryer may be used on low setting to speed up drying time.

Step 2: Top Coat

A separate sprayer used only for top coat is required. Shake the can of top coat well and pour into sprayer. Once sprayer is filled to the desired amount, shake well and apply multiple thin coats. Do not overcoat. Use an equal volume of top coat to cover the bottom coat. Some agitation during application is recommended. Avoid over wetting or pooling. The top coat will produce a translucent white appearance.

Step 3: Drying/Curing of System

The coating will become superhydrophobic within 10 minutes of the top coat application. For best results, allow 2 hours of drying time. A heat gun or blow dryer may be used on low setting to speed up drying time.

Cleanup:

Clean tools/equipment immediately after use with xylene. Empty left over top or bottom coat into original containers. Spray all pumps or sprayers "dry".

Care and Repair:

Ultra-Ever Dry® is a durable coating that exhibit superhydrophobicity and superoleophobicity. After curing the coatings will repel water mixtures and refined oil. Cleaning of the surface should be performed using low pressure water spray. The surface should demonstrate self cleaning properties under these conditions. Dust and dirt should rinse off easily. The surface will remain completely dry. The surface will lose it properties if treated with detergents, soap, some solvents or high pressure water. Due to the natural oils in the skin, excessive handling with bare hands of treated materials can cause a reduction in performance as can severe abrasion.

Instructional Video available at

www.UltraEverDry.com

-or-

Scan this QR Code with your smart phone.

