

Ultra-Ever Dry

SURFACE PROTECTION

SPECIFICATIONS

REVISED 01.06.14



GENERAL DESCRIPTION

Ultra-Ever Dry™ Surface Protection is a two-part, air dry coating that is easily applied by spraying. The bottom coat is applied, allowed to dry for 30-60 minutes, and the top coat is then applied. The top coat usually requires about 15-30 minutes to dry.

It is suitable for indoor or outdoor use. The system offers superhydrophobic and oleophobic 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-bacteria and corrosion protection purposes.

FEATURES

The coating produces a matte-like, textured surface. The finish is translucent, with a slightly white haze. Ultra-Ever Dry™ Surface Protection top coating will appear white if applied too heavily.

- **Superhydrophobic** – aqueous solutions roll off the surface quickly and form a spherical droplet with a contact angle greater than 150 degrees.
- **Oleophobic** – some oils bead up and roll off the surface quickly when the surface is angled 5 degrees or more.
- **Chemical Resistance** – Excellent: acids, alkalines, pollutants. Good: Refined oils with low solvent content. Poor: Solvents, fluids with values of surface tension below 30 mN/m.
- **Abrasion Resistance** – Abrasion will reduce or eliminate effectiveness. Ultra-Ever Dry has better abrasion resistance than most superhydrophobics.

RECOMMENDED FOR

Woods, metals, glass, plastics, rubber, concrete, stone, over paints and other coatings. Not recommended for use on acrylics due to the high solvent content in Ultra-Ever Dry™.

LIMITATIONS

- Excessive abrasion will lessen or eliminate superhydrophobic performance.
- Soaps and alcohols applied to surface will cause the surface to “wet-out” until the soap and alcohol is removed using low pressure water. It will then resume its superhydrophobic properties.
- The coating can be removed or its effectiveness diminished when most solvents are applied to it.
- Ultraviolet (UV) exposure will reduce the coating longevity to one year or less.

SURFACE PREPARATION

Prep as needed to create good adhesion. Recommended heavy-duty Scotch-Brite™ or 320-800 grit sandpaper for enhance surface adhesion on smooth surfaces.

BEST USES

Include:

- **Anti-icing** applications where water approaches at relatively low velocities or pressures (prevent hanging ice).
- **Anti-wetting** applications to keep items dry and working.
- **Anti-corrosion** applications.
- **Self-cleaning** of surfaces during rain events or by washing with low-pressure water.
- **Anti-bacterial** – reduces the amount of bacteria on a surface.

Colors – Standard	Translucent White (not clear)	
% Solids	Bottom Coat	≤ 17%
	Top Coat	≤ 5%
Bottom Coat mixing time	5-10 minutes	
Top Coat mixing time	3-5 minutes	
Coverage per gallon	250 sq ft. (23 m ²) at 0.5 mil (13 µm) dry thickness	
Recommended thickness	0.5 to 1.0 mils dry per layer (13 to 25 µm)	
Dry Time	Bottom Coat	30-60 min (standard) > 60 min (max oleophobicity)
	Top Coat	15-30 min (standard) Overnight (max oleophobicity)
	To Package	1-2 hours (standard)
Working temp	-30-300°F (-34°C - 149°C)	
Surface application temp	50-90°F (10 – 32°C)	
Flash point	Bottom Coat	10 °F (-12 °C)
	Top Coat	-4 °F (-20 °C)
Specific gravity	Bottom Coat	0.84
	Top Coat	0.79
Storage temp	40-115°F (4 – 46°C)	
Shelf life	2 years @ 77°F (25°C)	
Weatherability	Up to 12 months depending on UV intensity	