# Ultra-Ever Dry SURFACE PROTECTION SPECIFICATIONS



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## 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<sup>TM</sup> Surface Protection top coat 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 some paints and other coatings. Not recommended for use on acrylics due to the high solvent content in  $Ultra-Ever\ Dry^{TM}$ .

### 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 performance.
- The coating can be removed or its effectiveness diminished when most solvents are applied to it.
- Exposure to ultraviolent (UV) light will reduce the coating longevity to one year or less.

# **SURFACE PREPARATION**

Prepare as needed to create good adhesion. Heavy-duty Scotch-Brite™ or 320-800 grit sandpaper is recommended for enhanced 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 Top Coat	≤ 17% ≤ 5%
Mixing Time	Bottom Coat Top Coat	5-10 minutes 3-5 minutes
Coverage per gallon		250 sq ft. (23 m²) at 0.5 mil (13 $\mu$ m) 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)
Wellering	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 Top Coat	10 °F (-12 °C) -4 °F (-20 °C)
Specific gravity	Bottom Coat Top Coat	0.84 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