

Ultra-Ever Dry SE 7.6.110

SPECIFICATIONS

10.10.12



GENERAL DESCRIPTION

Ultra-Ever Dry™ SE 7.6.110 is a 2-step, air dry coating that is easily applied by spraying. The bottom coat is applied to approx. 1.5 mils, allowed 15 minutes or more to flash, and the top coat is then applied.

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, for anti-icing, and for corrosion protection. While brushing and dipping are available technologies, spray application has shown the best and most consistent results.

FEATURES

Produces a hard surface. The finish is nearly transparent, with a slightly white haze. The results from the nano-dimensional features on the surface. Ultra-Ever Dry™ SE can appear white if applied heavily.

- Superhydrophobic – aqueous solutions roll off the surface quickly
- Superoleophobic – refined oils roll off the surface quickly
- Chemical Resistance – acids, alkalines, pollutants: excellent; petroleums: good
- Abrasion Resistance – moderate

RECOMMENDED FOR

Wood, metal, glass, rope and fabrics, plastics, rubber and paper products.

LIMITATIONS

- Excessive abrasion will lessen performance.
- Superhydrophobic effect will dull quickly with solvents

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PRODUCT INFORMATION

Pressure:

- Remains dry under 1 foot of water for months
- Remains dry under 90 feet of water for 6 days
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Taber abrasion: Remains superhydrophobic for 30 cycles of tabor test with CS10 wheel

Toughness: Remains superhydrophobic for over 600 rubs with latex glove or cotton cloth

Salt fog: No visible corrosion after 1,000 hours of salt fog

Wetting:

- Wets with solvents such as ethanol and other alcohols. Retains characteristics once solvents evaporate.
- Wets with diligent "hand rubbing" as oils from hands coat surface chemistry of coating.

Viscosity (measured with #3 Zhan cup):

- Base coat - 8 sec.
- Top coat - 8 sec.

Best Uses, include:

- Anti-icing applications where water approaches at relatively low velocities or pressures (prevent hanging ice or conductive ice bridges).
- Anti-wetting applications to keep items dry and working.
- Anti-corrosion applications.

Colors – Standard	White–90% clarity
Colors – Tints	available
% Solids	>10%
Tensile	3000 psi
Coverage per gallon	150-240 sq ft
Recommended thickness	1.5 mils dry
Dry time to handle	30 minutes
Dry time to pack	1-2 hours
Working temp	-30-300°F
Surface applicationg temp	50-90°F
Flash point	Flammable
Storage temp	40-80°F
Shelf life	1 year @ 77°F
Weatherability	5-7 years
Dielectric Constant	3.15 at 100 MHz
Electrical resistivity	2-3 tera ohms