



## Ply-Guard UC (Topcoat)

## Technical Bulletin

Ply-Guard UC (Topcoat) is a squeegee-applied cementitious polyurethane topcoat installed at 10—20 mils (0.25—0.5 mm). It is resistant to impact and abrasion, and it stands up to steel-wheeled cart traffic. It is unaffected by hot cooking oils, animal fats, and most solvents.

Ply-Guard UC (Topcoat) has been formulated to compensate for the difference in the coefficient of thermal expansion of concrete. The concrete must be “keyed” to maintain adhesion during cure, stress during use, and especially when subjected to post-cure thermal shock of freezing or hot water or steam cleaning. It can be used as a constant service temperature up to 200°F (93°C). Ply-Guard UC (Topcoat) can be purchased with an anti-microbial additive to inhibit the growth of fungi or other micro-organisms.

Ply-Guard UC (Topcoat) is a quick-turnaround flooring solution for businesses that must minimize downtime. It can be returned to service 12-24 hours after installation depending on the temperature and thickness. Ply-Guard UC (Topcoat) creates uniformity of appearance.

Ply-Guard UC (Topcoat) is available in 8 standard colors. Its chemical composition is aromatic polyurethane cement.

### Limitations

- Material will amber when exposed to UV light
- Do not apply material in direct sunlight
- Do not apply when temperatures are below 45°F (7°C) or 90°F (32°C)

### Uses

- Food & Beverage Process Facilities
- Commercial Kitchens
- Chemical Processing
- Pulp & Paper Plants
- Wastewater Treatment Facilities

### Product Data

<b>Ultimate Compressive Strength (ASTM C579), psi:</b>	8,500
<b>Tensile Strength (ASTM C307), psi:</b>	1,400
<b>Ultimate Flexural Strength (ASTM C580), psi:</b>	2,700
<b>Hardness, Shore D (ASTM D2240):</b>	75-80
<b>Adhesion to Concrete (ASTM D7234), psi:</b>	400 (Concrete Failure)
<b>Water Absorption (ASTM C413), %:</b>	<0.1
<b>Thermal Compatibility with Concrete (ASTM DC884):</b>	Passes
<b>Coefficient of Thermal Expansion (ASTM C513):</b>	1.1X10 <sup>-5</sup> (Minimum)
<b>Flammability when Bonded to Concrete (ASTM D635):</b>	Self-Extinguishing
<b>Abrasion Resistance (ASTM C501), mg:</b>	32
<b>Microbial Resistance (ASTM G21):</b>	Passes #1
<b>Coefficient of Friction, Static Wet (ANSI.NFS B101.3):</b>	Meets ADA Flat & Ramp
<b>Coefficient of Friction, Dynamic Wet (ANSI.NFS B101.3):</b>	Meets ADA Flat & Ramp

Coverage Per Kit	
Floor Thickness (WFT)	Coverage Per 1.75 Gal (6.6 lt) Kit
10 mils (0.25 mm)	280 Square Feet (26.0 Square Meters)
16 mils (0.42 mm)	175 Square Feet (16.25 Square Meters)
20 mils (0.5 mm)	140 Square Feet (13.0 Square Meters)

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