

Technical Data Sheet

One Day Floors

Polyaspartic Polyurea One Day Floors™ coatings are: colored or clear; self-priming; for decorative and protective uses; are a new generation of fast-curing, two-component, polyaspartic aliphatic polyurea products for interior use over properly prepared concrete surfaces. Note - See Surface Preparation Section.

The One Day Floors™ coatings have excellent penetration and bond strength to properly prepared surfaces and are abrasion, impact, and wear resistant with flexible properties. They have good splash and chemical-spill-resistant properties involving commercial and household cleaners, pool water treatment products, gasoline, jet fuel and hot tires.

The One Day Floors™ coatings are ideal for residential floors and commercial high traffic areas requiring excellent abrasion resistance as well as medical and food service areas requiring durability to strong cleaning chemicals.

Product Features and Benefits

- Self-priming, excellent penetrating and bond strength.
- Excellent abrasion, impact, and wear resistance.
- Optically clear sealer/finish.
- Low-temperature cure (-30°F/-34°C); longer cure time needed in low temperatures. (Note: Reference is related to surface temperature and ambient temperature.)
- Average recoat time is 1 hour; walk-on time is 1 to 2 hours. Unmatched installation cycle; rapid return to service.
- May be used in conjunction with chips, quartz, rubberized aggregates, stains, and graphics.
- Can add micro media agents to improve traction. Coefficient of Friction: COF.
- VOC compliant.
- Meets FDA/CFSAN, U.S. Food Code, Physical Facilities criteria as outlined in 6.101.11 Surface Characteristics. USDA acceptable. Not tested for 21 CFR food contact.
- Excellent stain resistance.
- Random/incidental heat contact; tolerant to 300°F.

Product Uses

- Three-coat media system consisting of self-priming colorable primer/sealer followed by media or colored "bed" coat for accepting and wetting decorative flake chips (or other decorative media), followed by clear sealer/finish coat.
- Final clear sealer/finish over interior decorative concrete surfaces such as acid, water borne or dye-stained, and semi-polished concrete.
- Wherever high abrasion resistance, chemical resistance and rapid return to service are important factors.

Limitations: Apply to substrates with a minimum CSP 2. Do not apply over acrylic sealers or over acrylic modified cementitious overlays. Protect from continuous exposure to Methyl Ethyl Ketone Solvent. Avoid extended long term exposure to direct sunlight.

Product Data

Type of Material: Polyaspartic Aliphatic Polyurea

VOC Content: 2.6 lb/gal (340 g/l) to 0 (zero) VOC Content

Recommended Dry Film Thickness: 2 to 10 mils per coat

Clear: High gloss.

Color Dispersion: Standard factory or custom colors

Shelf Life: 12 months unopened. Store at 40°F to 100°F in a covered area (out of the sun)

Pot Life @ 70°F (20°C) and 50% Relative Humidity: 25 to 30 minutes

Minimum Recoat @ 70°F (20°C) and 50% Relative Humidity: 1 hour, minimum

Light Foot Traffic @ 70°F (20°C) and 50% Relative Humidity: 1 to 3 hours minimum

Maximum Recoat @ 70°F (20°C) and 50% Relative Humidity: 24 hours (contact manufacturer)

Mixing Ratio @ 70°F (20°C) and 50% Relative Humidity: 1.0 part A; 1.0 part B

Property Profile:

Tensile Strength: ASTM D-638: 5935 psi
Elongation: ASTM D-638: 9 %
Taber Abrasion: ASTM D-4060: 21.7 mg lost
Impact Direct/Reverse: ASTM D 2794: 170D/170R
Falling Sand Abrasion Resistance ASTM D 968:
Clear30 liters sand/1 dry mil
Color Dispersion38 liters sand/1 dry mil
Mandrel Bend ASTM D 522: Passes, no cracking,
1/8 in. mandrel bend
Gloss ASTM D-523: 90
Hardness ASTM D-2240: 70-75D
Dry Time: 1 hour 15 minutes
Pendulum/Time: 146.53

Theoretical Coverage @ 70% Volume Solids:

DFT 1,123 ft • 1 mils
DFT 562 ft • 2 mils
DFT 374 ft • 3 mils
DFT 281 ft • 4 mils
DFT 225 ft • 5 mils
DFT 187 ft • 6 mils

Moisture Testing Methods

The rising moisture vapor emission rate (MVR) must not exceed 10 pounds per 1,000 square feet (10 lb/1,000 ft²) over a 24 hour period as measured by the calcium chloride test method (CaCh Test) ASTM F 1869 and 96% RH as determined by the Weber RAPID-RH Smart Sensor. Together they provide an accurate "snapshot in time" and the true subsurface condition.

Surface Preparation

The receiving concrete surface must be deemed structurally and mechanically sound, clean, and dry. This is best achieved by mechanically grinding to a final 50 to 100 grit profile. This process insures flatness; removes surface contaminants; and, profiles the surface to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732.

All receiving surfaces must be free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, oils, fats, grease, waxes, residue from cleaning compounds, non-visible soluble salts, and any other impediments to adhesion. Always check for potential bond breakers. Wipe the prepared surface with a dark cloth. The presence of white powder requires the floor be broom agitated, vacuumed and re-checked. Another method entails

pouring a slight amount of water on the concrete in random areas. If the water is absorbed into the concrete and leaves it wet, the substrate is porous and acceptable. Water beading on the surface indicates the presence of a bond breaker requiring additional grinding. Remedial repairs (i.e., cracks, chips, pitted/severe spalls deemed non-structurally sound or have levelness issues) shall be repaired using ODF Crack Repair and ODF Patch according to ODF instructions.

Mixing

Mix Part A and Part B in equal parts (1:1) using a clean, dry, working pot. Stir 30 to 60 seconds. Avoid over-mixing or creating a vortex that would introduce moisture. No induction time is required after mixing and prior to use. If micro-media agents are to be incorporated, they are to be added after thorough mixing of A and B.

Potlife

Expect 25 to 30 minutes workable potlife at temperatures from 70°F to 80°F (and 50% relative humidity). Higher temperatures and more humidity will shorten potlife. Colder and drier conditions extend potlife.

Application Instructions

Apply the ODF coatings with a phenolic core 3/8" synthetic nap or lambs wool cover for pigmented, stain floors and media coats. Use a foam squeegee and back roll with the roller over media floors (chips and quartz). Use 18" wide rollers and squeegees. Consult the manufacturer before considering airless application. Note: The use of pump-up sprayer, spray bottle may create visible bubbles, blisters, or pinholes.

Cleanup

Use Xylol or MEK. DO NOT USE ALCOHOLS.

Storage and Shelf Life

Recommend storing product in tightly sealed containers in climate-controlled, dry location at normal room temperature. Opened containers should be resealed in new containers avoiding air voids in containers, as this could lead to the potential for product to react to moist air in container and decrease shelf life.

Safety Precautions

Use only in well ventilated areas. Use respirators (ODF Multi-absorbent, Multi-Gases & Vapors/P100 cartridge). Protect eyes and skin from direct contact. KEEP OUT OF REACH OF CHILDREN.

NON-Warranty: The information herein is based upon the best information available at the time of printing. Data provided is intended for those having skill and ability to use products recommended in a safe and responsible manner. LIABILITY is limited to the cost of material proven to be defective. There is no warranty expressed or implied as related to any issue which is deemed to be a direct result of improper surface preparation or cleaning, application over concrete or cementitious surfaces which have not reached full cure, those having excessive rising moisture/vapor or hydrostatic pressure, application over surfaces which have previously been sealed without first testing for compatibility/adhesion, adverse water conditions, acts of God or acts of others, constant submersion in harsh environments, workmanship or applicator, or any other cause and effect which is not related to defective material.

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