

PRODUCT DESCRIPTION

SurfaceOne Urethane Cement is a 100% solids, aromatic, cementitious urethane polymer concrete flooring system. It is typically applied at a thickness of ¼" to 3/8" and trowel finished. The product is designed to withstand aggressive chemical and thermal shock environments while providing an abrasion resistant, slip resistant surface. It can be provided with integral cove base for areas requiring sanitary seamless wall to floor transition. SurfaceOne Urethane Cement can be installed with an integral cove base for areas requiring seamless wall to floor systems. It will not support the growth of fungus or bacteria. Installing SurfaceOne Urethane Cement with a textured surface reduces slipping under most wet conditions. It is a smart choice for wet areas like those typically found in dairies, food processing areas, commercial kitchens, breweries, bakeries, etc.

LIMITATIONS

Not recommended for use over flexible substrates. It is best suited for application in temperatures between 50 deg F to 85 deg F. Substrate must be clean, sound and dry. Extremely porous substrates may require a primer coat. Concrete shall be moisture cured for a minimum of 10 days and have a minimum of 14 days in accordance with ACI-308 prior to the application of coating pending moisture tests.

ADVANTAGES AND BENEFITS

- VOC compliant
- ADA compliant
- CA 01350 compliant
- Excellent adhesion
- Extraordinary chemical resistance
- Easy Maintenance
- Won't support bacterial growth
- Wide range of application temperatures
- One step application, various topcoat options
- Leeds credits possible

TYPICAL USE AREAS

- Where steam or hot water is required for cleaning
- Where severe shock conditions exist: thermal shock, high impact pressure and chemical exposure
- Badly damaged surfaces that need a fast economical resurfacing
- Meat, poultry, dairy, and bottling plants
- Chemical processing facilities and warehouses
- Commercial kitchens, restaurants, freezers and coolers

SUBSTRATE REQUIREMENTS

Site must be free of dirt, waxes, curing agents, or other foreign agents and free from condensation or water contamination during application and cure. Shot blasting or scarifying is recommended. All control joints and expansion joints must be revealed with the appropriate divider strips in the new surface. To ensure that the new surface remains fully bonded to the substrate, the edges of the floor area adjoining the walls should be keyed to produce a cross section running at 6 inches from and parallel to the wall. Relative humidity should be < 92%.

APPLICATION METHOD

1. Pour the mixed components onto the floor
2. Use a trowel or notched squeegee to spread the material
3. Roll the material with a looped roller to even material and help to remove air bubbles

PACKAGING AND STORAGE

SurfaceOne Urethane Cement is provided in pre-measured kits that include A and B liquids in ½ gallon cans, a bag of aggregate, and a one-pound packet of pigment that will cover 18 square feet at a thickness of ¼". Kits should be stored in a clean, dry area in stable temperatures approximating 60 deg F to 73 deg F.

APPLICATION

The A and B liquids should be added to a forced circulation pail mixer and pre-blended for approximately 30 to 45 seconds. The aggregate should be added slowly until a homogeneous mix is attained. The mix can be applied to the substrate by hand or using a screed box set at approximately 3/8" thickness which will compress to ¼" when troweled. The mix is then troweled by hand or using a power trowel to the desired finish. The surface can be used as is or a topcoat can be applied having the desired properties for the final surface.

MOISTURE CONCERNS

Limits for moisture vapor transmission for Runyon PUC systems are 12lbs/1000sqft/24 hours using the calcium chloride test, per ASTM F1869. Surface moisture should be less than 4% using an impedance meter, per ASTM E1907. If higher than acceptable values are obtained, it may be necessary to prime the substrate surface. Contact your SurfaceOne technical representative for assistance in selecting the proper vapor barrier primer for your application

MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems and enhance their appearance. SurfaceOne Urethane Cement will withstand steam-cleaning, high pressure hot water wash downs, and a wide range of degreasing cleaners.

TECHNICAL DATA

Physical Property	Test Method	Result
Hardness	ASTM D-2240	65
Compressive Strength	ASTM C-579	7500 psi
Tensile Strength	ASTM D-638	4200 psi
Flexural Strength	ASTM D-790	2200 psi
Impact Resistance	ASTM D-3134	pass
Slip Resistant	ASTM D2407	pass 0.9
Abrasion Resistant	ASTM D4060	30 mg

Installation Information

Cure time @ 70F

Light Traffic	4-6 hrs
Light Wheel Traffic	24 hrs
Full Service	48 hrs

Mix Ratio (premeasured volume)	3 component kit
Color addition (premeasured)	1 component add-on pr built in
Working time	15 min
Service Temperature	-40 – 150 F
Toxicity	Sensitized individuals do not install

CHEMICAL RESISTANCE

SurfaceOne Urethane Cement has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic fluids, aromatic and aliphatic solvents. Some acids may discolor or bleach the surface.

HEALTH AND SAFETY

Read carefully and follow Material Safety Data Sheets and application instructions for the SurfaceOne Urethane Cement flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment and clothing to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

WARRANTY

SurfaceOne warrants that for a period of one year its products will be free of manufacturing defects and will be in conformity with published specifications when stored, handled, mixed, and applied in accordance with SurfaceOne's recommendations. If any product fails to meet this warranty, SurfaceOne's liability will be limited to the replacement of any non-conforming material if notification is made to SurfaceOne within the one-year one-year period. To obtain replacement or refund for the value of the nonconforming materials, the customer must provide written notice containing details of the non-conforming performance. SurfaceOne reserves the right to inspect the non-conforming material before replacement is made. Except for the expressed warranty stated here, there are no other warranties, expressed or implied, including without limitation, any implied warranty of merchantability or fitness for any other purpose. SurfaceOne's obligation shall not extend beyond the obligations expressly undertaken above and SurfaceOne shall have no liability or responsibility to the purchaser or any other third party for any loss, cost, expense, damage, or liability, weather direct or indirect, or for incidental or consequential damages.