



PRODUCT DESCRIPTION AND USE

SunOne (polyaspartic) is a two component, high solids, aliphatic polyurea/polyaspartic hybrid. Unique new resin chemistry has provided the raw materials to formulate this coating that gives the desirable properties of polyester-polyurethane materials with greatly reduced odor and less film thickness limitations. SunOne is a low viscosity, easy to handle product that gives very high gloss finishes that are both hard and abrasion resistant. This material releases soils easily and has excellent resistance to a broad range of chemicals. Unlike conventional polyurea materials, SunOne has enough work time to be applied by brush and roller. It is available in both a regular cure and a fast cure version for use in rapid turnaround projects. The fast cure material may be used at temperatures as low as 20°F.

SunOne was developed as a high performance top coat in various protective coatings and seamless flooring applications. Because of its low solvent content, it may be applied heavier in one coat than conventional solvent or water-based polyurethanes. Applications that required two or more top coats can now be done in a single application resulting in savings of both time and labor. SunOne is ideally suited for use as a finish coat in color chip and color quartz flooring, automotive repair facilities, aircraft hangars, clean rooms and various types of decorative architectural concrete applications.

Chemical Composition

Hydroxyl functional polyaspartic and amine crosslinked with aliphatic isocyanate.

Colors

Clear or choose from 16 different SunOne pigment packs.

Limitations

- Do not use on unprimed substrates.
- Do not allow to puddle. Film thickness must not exceed 16 mils.

TECHNICAL DATA

Physical Properties

Mixing Ratio, by Volume	1-1
Solids Content, by Weight	77%
Solids Content, by Volume	75%
V.O.C.	400 gms/ltr.
Viscosity, cps (77 degrees)	200
Pot Life, Regular Cure (77 degrees, 25% R.H.)	20 minutes

Physical Properties(con't)

Pot Life is reduced by increasing humidity and/or temperature.

Dry Times., Regular Cure Material (77 degrees, 25% R.H)

Dry to Touch.....	1 hours
Light Traffic.....	4 hours
Vehicle Traffic.....	24 hours
Full Chemical Resistance....	72 hours

Dry Times., Fast Cure Material (30 degrees, 25% R.H.)

Dry to Touch.....	2 hours
Light Traffic.....	6 hours
Vehicle Traffic.....	48 hours
Full Chemical Resistance....	72 hours

Performance Properties

Gloss (60 degrees).....	95
Hardness (Pendulum).....	172
Tabor Abrasion (1000 gm. load 1,000 cycles, CS17 wheel)	36 mg loss

CHEMICAL AND STAIN RESISTANCE (ASTM D-1308 24 HOUR IMMERSION)

Urine	no effect
Blood.....	no effect
Whiskey	no effect
Black Ink.....	no effect
Brake Fluid.....	no effect
Gasoline	no effect
Skydrol B-4.....	no effect
Hydraulic Fluid #83282	no effect
Mineral Spirits	no effect
Xylene	no effect
MEK.....	film softened
50% Sodium Hydroxide.....	no effect
25% Hydrochloric Acid	no effect
25% Sulphuric Acid.....	no effect
25% Acetic Acid.....	no effect
25% Nitric Acid	film blistered

GENERAL INFORMATION

Moisture Vapor Emissions/Alkalinity Precautions

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission and related high levels of alkalinity that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions or alkalinity are present before applying any coatings. These test kits are available from SDP. Sundeck Products USA, Inc. and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.

Surface Preparation

Surface must be absolutely clean, dry and free from all dirt, wax, oil, chalk, incompatible paint or detergent film. Fully cured, previously coated surfaces must be cleaned and sanded lightly with 80-100 grit sandpaper or otherwise mechanically abraded before recoating. If multiple coats of SunOne are applied, apply additional coats as soon as possible. If more than 24 hours has elapsed or the coating cannot be indented with a fingernail, abrade surface with 80-100 grit sandpaper or screen to insure intercoat adhesion.

Mixing Instructions

The material is supplied in pre-measured kits for easy proportioning. Add the entire contents of the Part B container to the Part A. The mixing ratio is 1 Parts A to 1 Parts B by volume. **When using pigment packs, add entire content to part A before mixing with part B.** Mix for 1 full minute using a slow speed drill, scraping the bottom and sides of the mixing container. Mix only that amount which can be applied within 40 minutes for the regular cure material and 20 minutes for the fast cure. Additional solvent may be added up to 10% to further lower the application viscosity and extend the work time. Acetone is the recommended solvent.

Application Recommendations

SunOne is a very reactive material and requires special application techniques. It may be brushed, rolled or sprayed using plural component spray equipment. **When used as primer, thin SunOne up to 20% with acetone to lower the viscosity and improve product substrate penetration.** Easy application is accomplished by pouring the freshly mixed product on the floor, spreading to the desired thickness with a flat trowel or rubber squeegee and finish rolling immediately with a ½ inch roller. The mechanic rolling the material should wear spiked shoes to walk on the wet material. If using the fast cure material, the best application technique is using an 18 inch roller and working out of a roller pan. Because the material sets quickly, change roller covers every hour.

Application of the material must be done immediately after mixing. On large jobs, be sure to have enough mechanics to keep a wet edge. Application rate should be kept above 100 sq. ft. per gallon (16 mils). Thicker films may entrap solvent or cause CO₂ bubbles. If allowed to puddle, CO₂ bubbles will appear as frosted areas.

Handling Precautions

Use only with adequate ventilation/or a cartridge type respirator designed to be used for isocyanates. Avoid contact with skin, wear protective gloves. Read Material Safety Data Sheet before using.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Sundeck Products USA, Inc. recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Sundeck Products USA, Inc. or its sales agents will not be responsible for injury incurred in a slip and fall accident.

WARRANTY INFORMATION

Sundeck Products USA, Inc. guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. SUNDECK PRODUCTS USA, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Sundeck Products USA, Inc. shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Sundeck Products USA, Inc. shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.