SP-250/ Solvent Polyurethane (2-part kit)

Preferred Deck's **SP-250** is a two-component, clear solvent acrylic polyurethane. Because it dries quickly and is a low viscosity sealer with excellent penetration and adhesion properties, it is used as both a primer and finish coat. It can be used on many various substrates, such as overlay systems, etched concrete, porous stone, pavers, acid stain applications, and integrally colored concrete.

SP-250 is highly UV-stable, so it can safely be used on exteriors without yellowing. It is extremely scratch and stain resistant, providing a durable, easy soil-release surface, making it simple to clean and maintain. **SP-250** is an excellent choice for driveways and garages, since it is highly chemically resistant and reduces tire marking.

This industrial sealer is often applied over a Preferred Deck overlay system since it has a limitless recoat time. This means that years later, only minimum surface preparation is needed for resealing, so the overlay texture remains intact.

When applied directly to concrete, pavers, and exposed aggregate, color enhancement is achieved. For first coat, many contractors add 20-50% xylene into mix to increase penetration. However, do this at own risk. Let dry and apply second, undiluted finish coat.

Available in both GLOSSY and SATIN sheens. Satin MUST be first primed with glossy version of **SP-250** – or with Preferred Deck's **Clear Coat Sealer**. Contact us for details.

LIMITATIONS:

- Not suggested for indoor applications due to strong solvent smell. Contact us for better options.
- When used as a primer, substrate MUST be porous.
- Do NOT apply around swimming pools or areas exposed to water due to potential slip hazard (even with nonskid material.) Contact us for better options.
- Not suggested for areas exposed to excessive water/ hydrostatic pressure, since solvent coatings can blush and push off over time. Contact us for better options.
- New concrete must be cured (with no "green spots") before applying - averages 30 days.
- Note all dry/cure/recoat times below.
- Acrylic products cannot be applied over **SP-250** without tie-coat of **SP-250**. Contact us for details.
- Not for projects exposed to battery acid.
- SATIN version cannot be applied directly to substrate. MUST first be primed.
- Project area should have good air flow/ventilation for proper cure.

COVERAGE RATE: Each 1.5 gal. kit covers 300-400 sq. ft. (250 sq. ft./ gal.) Depends on many factors including application technique, weather conditions, and surface porosity.

SURFACE PREPARATION: Substrate must be structurally sound and free of dust, dirt, paint, deteriorating concrete, oil, grease, suntan lotion/oil, corrosion, wax, rust, efflorescence, or any other contaminants. Remove all loose material, coatings, curing agents, and sealers. A properly prepared surface is key to a successful coating application. Contact us if needed.

Always profile surface when applying directly to concrete, which can be achieved by several methods: surface grinding, shot blasting, acid etching, or etching with a "green alternative," such as Preferred Deck's **Super Deck Prep** (consult TDS.)

When acid etching, be knowledgeable about the process and follow correct procedure. Use extreme care. Many etch using floor machine with nylogrit brush and neutralize with ammonia solution. MUST dry overnight.

Before applying to POROUS stone or pavers, degrease and rinse away using 3000-3500 psi pressure washer. Let dry overnight.

For newly installed acrylic overlay, return next day to apply. **SP-250** MUST be applied WITHIN 72 hours of last coat of stain/sealer, or delamination can occur. Contact us for details.

TEMPERATURE/WEATHER CONDITIONS: Do not apply in extreme conditions. Use temperature gun to ensure CONCRETE temperature is between 50-100° F. Ambient temperature must be at least 60° F (and rising) and minimum of 5° F above dew point. Humidity should not exceed 80%. In hot months, do NOT apply in direct sunlight – work in early morning hours. Work time/pot life is dramatically reduced over 90° F.

SAFETY PRECAUTIONS: Mix and apply in well-ventilated area and warn customers of solvent smell. Use NIOSH approved respirator, if necessary. Carefully read labels, Technical Data Sheet and Safety Data Sheets to comply with ALL precautions.

MIXING INSTRUCTIONS: In warmer temps, measure/mix in shade and mix smaller batches. Use squirrel or jiffy mixer at low speed. High speeds will induce air into sealer and be problematic.

Premix both **Parts A** & **B** with separate stir sticks/paddles to avoid cross contamination. For SATIN version, pre-mix **Part A** with low-speed mixer until ALL fillers are uniformly suspended with no clumps. This could take several minutes.

MIXING RATIO is 2:A to 1:B by volume. If using entire kit, it is packaged accordingly. For partial kits, meticulously measure components and reseal containers.

Pour **Parts A** and **B** into clean mixing vessel/bucket. Do not expose to moisture. Mix at low speed for two (2) minutes, scraping sides/bottom. When using nonskid material (aluminum oxide or resin sand), mix **Parts A** and **B** together for one (1) minute, add material, and mix one (1) additional minute.

APPLICATION: Airless sprayer works best for certain application like pavers. For concrete, apply using 1/4" or 3/8" solvent-resistant, low-shed roller cover. On overlay textures, 1/2" is often best, depending on texture. Work out of 5-gallon bucket/roller pan using dip/roll method. Roll out in small sections, since material dries quickly. Do not allow sealer to puddle, even in joints, since solvent entrapment can occur. Cut-in stem walls/edges using 4" chip brush WHILE rolling.

PHYSICAL PROPERTIES:

VOC	**< 400 g/L**
SOLIDS CONTENT	**38.5 %**
POT LIFE	**25 mins** (1 gal mass @ 75° F)
DRY TIME - RECOAT	**2 – 6 hours** (@ 75° F)
INTERCOAT ADHESION	**Within 72 hours** (over acrylics)
DRY TIME - LIGHT TRAFFIC	**4-12 hours**
CURE - VEHICULAR TRAFFIC	**3 days**
FULL CURE/CHEMICAL	**7 days**

MECHANICAL PROPERTIES:

GLOSS INDEX - 60° gloss	**90 – 95** (ASTM D523)
GLOSS INDEX - 60° satin	**40 – 70** (ASTM D523)
PENCIL HARDNESS	**3H**
TENSILE STRENGTH	**5000 PSI** (ASTM S882)
ELONGATION	**10%** (ASTM D882)
ABRASION RESISTANCE	**0.03 gr**

RECOAT GUIDELINES: Unlike other polyurethanes, Preferred Deck's **SP-250** can be recoated with itself at any time. No additional surface preparation is needed except for attaining a clean (using a good degreaser/pressure washer) and dried (minimum overnight) surface. Existing acrylic coatings should first receive a "tie-coat" of Preferred Deck's **Top Coat/Reflecto Seal/Clear Coat Sealer** (depending on application), before coatings. Apply **SP-250** once acrylic is dry to the touch and not tacky. Contact us for details.

DRY/CURE TIME: Vary with weather conditions. Cold, damp climate extends times. Hot, sunny, dry conditions shorten times.

CLEAN UP: Clean tools and equipment using acetone or VOC exempt solvent.

PACKAGING/SHIPPING WEIGHTS: Kit Gross Weight - 13.8 lbs. (A – 9 lbs. B – 4.8 lbs.)

SHELF LIFE: One (1) year from manufacture date in original, unopened pails.

STORAGE: Store indoors, locked up in a well-ventilated place away from heat sources. Keep between 65 - 85° F. Not doing so can be hazardous and will dramatically decrease shelf life. Do not allow product to freeze.

DISPOSAL: Dispose of contents/container to a waste disposal plant and in accordance with local, regional, national and international regulations.

MOISTURE VAPOR EMISSIONS/ALKALINITY PRECAUTIONS:
While this product is NOT suggested for indoor applications, note that 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 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. Preferred Deck is not responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.

SLIP AND FALL PRECAUTIONS: OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Preferred Deck 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's and end-user's responsibility to provide a flooring system that meets current safety standards, since there are many factors in a coating system application. In general, **SP-250** is NOT recommended (as previously noted in this Technical Data Sheet) where slippage is a concern. Preferred Deck and its sales agents will not be responsible, under any circumstance, for injury incurred in a slip and fall accident.

FOR MOST CURRENT INFORMATION REGARDING HANDLING, CHEMICAL COMPOSITION, HAZARDS, WARNINGS, FIRST AID, TRANSPORTATION, (etc.), CONSULT SDS (Safety Data Sheet) for both A and B components at **www.prefdeck.com**.

DANGER: Flammable liquid and vapor. May be fatal if swallowed and enters airways. Harmful if swallowed and contact with skin. Suspected of causing cancer. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes skin irritation and may cause an allergic reaction. May cause damage to organs through prolonged or repeated exposure.

HAZARD: Harmful to aquatic life with prolonged effects.

PREVENTION: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment. Keep away from heat/ sparks/open flames/hot surfaces and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof [electrical/ventilation/ lighting] equipment. Use only non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/ eye protection/face protection. Contaminated work clothing should not be allowed out of workplace. Do not breathe dust/fume/gas/mist/ vapors/spray. In case of inadequate ventilation, wear respiratory protection. If medical advice is needed, have product container/label at hand.

WARNING: Read, understand, and follow all labels, Technical Data Sheets, and Safety Data Sheets before purchasing/using product. Comply with all local, state, and federal regulations.

FIRST AID/RESPONSE: IF ON SKIN (or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/ attention. IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. For specific treatment, see Section 4 on SDS. IN CASE OF FIRE: Use dry chemical, carbon dioxide, foam to extinguish. For detailed information, see Section 5 (Fire Fighting Measures) on SDS.

WARRANTY: Product has a limited two (2) year, non-transferable warranty. Consult **prefdeck.com** for full warranty details. All concerns are investigated by Preferred Deck Systems with the cooperation of the contractor who installed the product. This is a professional-grade product. Warranty does not exist for homeowner/do-it-yourself (DIY) projects. Use at own risk.

DISCLAIMER AND LIMITATION OF LIABILITY: To the best of our knowledge, the information contained herein is accurate. The warranty described herein shall be in lieu of any other warranty, express or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no warranties that extend beyond the description on the face hereof. The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the products or refund of the purchase price in the event that a defective condition of the products should be found to exist. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available to the Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description, and date of purchase) within thirty (30) days of the discovery of the defect. Final determination whether the use infringes any patents, is the sole responsibility of the Buyer.