PROSEAL SB™

TECHNICAL DATA SHEET

ProREZ™ Performance Resins and Coatings
ProREZ Coatings, LLC
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ProSEAL SB™ is a single component, low viscosity, acrylic-glass, VOC compliant solvent based sealer for direct to concrete application. Formulated from glass, this material exhibits a tenacious bond for stand-alone coating finishes, or applied as a cost-effective and higher abrasion resistant (20 milligrams of loss compares to high abrasion resistant urethanes) alternative to a Polish, Densify and Seal system.

BENEFITS

- **Easy Installation:** Diamond grind, only ICRI CSP 1 surface prep required. To create cost-effective alternative to Polish, Densify and Seal systems. Grind and polish up to 100-grit diamond level.
- **Fast Set:** No mixing. 1st coat usually penetrates and seals the concrete allowing the second coat to leave a low gloss, hard-wearing surface. Coating cures for recoat in 30 minutes or less.
- **VOC:** VOC exempt.
- **Low Cost Dust-Proof Sealer:** Excellent, high abrasion resistant alternative to regular sealing systems.
- **Impermeable and Stain Resistant:** Outperforms regular sealer systems for stain resistance.

APPROPRIATE APPLICATIONS

- Warehouses
- Supermarkets/Retail Space
- Front of House in Restaurants *(alternative to polish systems)*
- Offices

UNDERLAYMENTS/ LEVELING COMPOUNDS

ProSEAL SB can be applied over cementitious underlayments and leveling compounds.

Caution: Do not apply **ProSEAL SB** over any gypsum-based products or high moisture-sensitive patching/leveling compounds.

MOISTURE TESTING

Testing for moisture is not required as a stand-alone system. Allow newly poured concrete to cure for 7 days to achieve suitable strength.

SURFACE PREPARATION

Evaluate concrete slab for contaminants. The concrete must be structurally sound and meet industry standards as defined in ACI Committee 201 Report "Guide to Durable Concrete." Surfaces to be protected with **ProSEAL SB** must be free of moisture-sensitive patching and leveling materials, adhesives, coatings, curing compounds, concrete sealers, efflorescence, dust, grease, oils and any other materials or contaminants that can act as bond breakers.

EXAMINING CONCRETE SUBSTRATES

It is recommended to take core samples of older concrete slabs. The cores should be analyzed by a qualified analytical laboratory for compounds that may cause floor failures such as soluble salts, ASR (Alkali Silica Reaction), unreacted water-soluble silicates, organic substances etc. Water soluble silicates are found in some curing compounds, floor hardeners, and some manufacturers' vapor reduction products.

SURFACE PROFILING

It is recommended that all concrete surface areas must be mechanically prepared to an ICRI Concrete Surface Profile (CSP) of 1 (Ref 1) prior to **ProSEAL SB** installation. The minimal preferred concrete surface preparation method is diamond grinding. More aggressive surface preparation will likely require a cementitious leveler. The concrete surfaces must be vacuumed, be free of all dust and debris prior to the application of **ProSEAL SB**.

MIXING AND APPLICATION

Locate a suitable mix area that will allow easy access to the installation area. Protect the concrete surface from spillage with a layer of cardboard and/or sheet of plastic. Allow sufficient amount of work space area to work, prepare all necessary tools and materials. This material is a single component. It is not necessary to mix and used immediately. Pot Life is unlimited.

1. A 5-gallon airless sprayer system is necessary, however a hand pump sprayer may be used in combination with a nap roller

2. Place the 5 gallons of material under the 5-gallon airless sprayer.

3. Apply **ProSEAL SB** system on substrate at temperatures between 50°F-90°F. Do not apply **ProSEAL SB** to concrete less than 7 days old. Provide ventilation during application and curing.

4. Position the spray tip approximately 8"-10" (200-300 mm) from the concrete surface, using an overlapping spray pattern. Apply at a rate of 200-250 sq ft per gallon. Install in two passes, applying the second pass immediately after the first has penetrated the surface. DO NOT PUDDLE.

5. Examine the work as you proceed to assure complete, uniform coverage with no missed or bald areas.

6. Allow **ProSEAL SB** to cure.

7. Apply second coat as aforementioned.

8. System will dry for foot traffic as early as 15minutes. Allow 30 minutes for complete dry before next step.

SPECIAL INSTRUCTION

Keep the **ProSEAL SB** clean and free of dust, dirt, and debris prior to any floor covering or coating systems. Sanding is not required if applying within the recoat window. Sanding **ProSEAL SB** System is required if second coat is applied beyond 24 hrs.

COVERAGE

Typical coverage rates for **ProSEAL SB** are 250 sq ft per gal for 1st application and 250-300 sq ft for 2nd application. Concrete porosity will determine if a 3rd coat is required.

PACKAGING

1 gallon and 5 gallon units. (50 gallon drums are available by special order).

STORAGE
Store between 50°F-90°F.

SHELF LIFE
1 year in original sealed container.

CLEAN UP
Immediately with acetone after use.

DISPOSAL
Dispose of in accordance with current local, state and federal regulations. Collect with absorbent material.

SAFETY PRECAUTIONS
See Safety Data Sheet for the product. Avoid skin and eye contact as well as prolonged exposure to vapors.

FIRST AID
Eye Contact – Flush immediately with water and consult physician.
Skin Contact – Wash immediately with soap and water.
Discard contaminated clothing.

PHYSICAL PROPERTIES		
Percentage solid by weight	30%	
Mix ratio (by volume)	Single Component	
Viscosity at 70°F	20 cps	
Pot life at 70°F	Not Applicable	
Cure Time, Tack Free at 70°F	15-30 minutes	
Working Time at 70°F	Not Applicable	Spray/Roller Applied Only
Recoat Window	15 minutes	
Coverage Rate	5mils, 200sqft/gal	
Volatile Organic Compound (VOC)	<50g/l	
Mechanical Test	Methods	Results
Konig Hardness	ASTM D-4366	121
Tensile Strength	ASTM D-638	1,000psi
Tensile Elongation	ASTM D-638	5%
Adhesion to Concrete	ASTM D-7234	>400psi, substrate failure
Impact Resistance	ASTM D-2794	>160in/lb
Water Absorption	ASTM D-570	<0.1%
Flammability/NFPA 101	ASTM E-648	Class 1
Abrasion Resistance CS17 wheel/1kg load/1k cycles	ASTM D-4060	20mg loss
Coefficient of Friction (James Friction Tester)	ASTM D-2047 (ADA 0.6 min. req.)	Wet (0.7) Dry (0.8)

Warranties: ProREZ Performance Coatings warrants that its product shall be in accordance with the specifications published in the current revision of the Product Data Sheet. **ProREZ Performance Coatings** covenants that in the event any of its products fail to meet the published specifications, **ProREZ Performance Coatings** shall replace those products proved to be defective. **ProREZ Performance Coatings** shall not be responsible for any incidental or consequential damages due to the breach of its warranties. Notwithstanding the foregoing, **ProREZ Performance Coatings** sole liability hereunder shall not exceed the cost of the defective product originally purchased. EXCEPT AS SET FORTH ABOVE, **PROREZ PERFORMANCE COATINGS** MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED AND MAKES NO WARRANTY AS TO THE MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The user must determine if the product is suited for the intended use and the user must bear the risks and liabilities associated with it.

Reference 1.
International Concrete Repair Institute Guideline 310.2-1997 (2002), Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays