

PPC Shield LS Densifier

PRODUCT TECHNICAL DATA SHEET

PPC Shield LS Densifier is a ready to use, zero VOC permanent penetrating densifier that seals, hardens, and dustproofs new and existing concrete. Shield LS Densifier is the latest advancement in environmentally friendly concrete treatment technology that will eliminate dusting and extend the life of new "green" and existing concrete by decades. Shield LS Densifier is a clear, spray applied liquid floor treatment designed to increase surface durability and reduce permeability on interior, exterior, vertical, and horizontal concrete substrates. The Shield LS Densifier warranty guarantees that treated surfaces will remain water-repellant, dustproof, hardened, skid resistant, and abrasion resistant for 20-years from date of installation. PPC Shield LS Densifier permanently penetrates, seals, hardens, densifies, and dustproofs without brooming, microfiber, or surface agitation. This true single coat spray and walk away formula saves significant time and labor during application and reduced maintenance for the life of the treated surface. PPC Shield LS Densifier is UV stable and will not be yellow, peel, or degrade over time. PPC Shield LS Densifier provides increased stain resistance, slip resistance and is especially effective on colored concrete. The environmentally friendly formula eliminates scrubbing, rinsing, and costly disposal of caustic wastewater. PPC Shield LS Densifier can be installed five days after concrete placement and treated surfaces continue to shine with time and sustained use. PPC Shield LS Densifier is non-toxic, contains no solvents, and is listed as UL GREENGUARD Gold Certified, Health Product Declaration (HPD), Environmental Product Declaration (EPD), Declare Label LBC Red List Free, Super Compliant with SCAOMD and Buy American Act compliant. Shield LS Densifier is a stable formula that has an infinite shelf life and does not expire. PPC Shield LS Densifier is available as an ASTM C-309, ASTM C-1315, Type 1, 1-D, and 2 Class A & B curing compound for new concrete.

WHERE TO USE

- Interior Horizontal Substrates
- Vertical Cast in Place Concrete
- Structural & Lightweight Concrete
- Tilt Panels
- Below Grade
- Exposed Aggregate
- Colored Concrete
- Stamped Concrete
- Pre-Cast Panels
- Topping Slabs
- Garage Floors
- Warehouse / Distribution
- Storage Facilities
- Manufacturing Facilities
- Areas to Receive a Polish System

ADVANTAGES

- 20-Year Dustproofing Warranty
- Zero VOCs
- LBC Red List Free
- UL GREENGUARD Gold Certified
- Buy American Act Compliant
- UV Stable: Will not yellow
- Chloride Ion Protection
- Superior Stain Resistance
- Improves Abrasion Resistance
- Improves Skid Resistance
- No Maintenance or Reapplication for the Life of the Concrete

COVERAGE RATES

One-coat coverage rate is 400-450 sq ft per gallon (10-11 sq m per liter) for horizontal surfaces.

Two-coat coverage rate is 400-450 sq ft per gallon (10-11 sq m per liter) for vertical surfaces.

SHELF LIFE AND STORAGE

PPC Shield LS Densifier has an infinite shelf life when stored in a cool dry area out of direct sunlight. Product must be kept in tightly secured containers to prevent evaporation and contamination. MUST be protected from freezing. Product that has frozen will not function as intended and should be discarded.

PACKAGING and COLORS

Shield LS Densifier is available in 1-gallon (3.78-liter) jugs, 5-gallon (18.9-liter) pails, 55-gallon (208.2-liter) drums and 275-gallon (1041-liter) totes.

MIX RATIO

Single component.

PHYSICAL CHARACTERISTICS

ASTM C-1028 (Static Coefficient of Friction)
Dry 24% Improvement over untreated sample.
Wet 36% Improvement over untreated sample.

ASTM C-944 (Abrasion Resistance)
52% Improvement over untreated sample.

ASTM C-805 (Schmidt Hammer Test)
11% Improvement over untreated sample.

ASTM C-309/C1315: Type 1, 1-D, 2 CLASS A & B
0.40 kg/m²

VOC: 0 g/l

SOLIDS CONTENT BY VOLUME.....12%

SOLIDS CONTENT BY WEIGHT.....12%

Color: Clear

Foot Traffic: 30 minutes

Vehicular Traffic: 60 minutes

OVERVIEW OF INSTALLATION STEPS

Mandatory Mockup: A 100-200 sq/ft mockup should be installed as a guide for installation and quality control panel days or weeks before the actual installation of the coating system. The mockup should be approved by an authorized representative of the Property Management for Slip Resistance, aesthetics, and functionality.

Substrate: Ensure the surface is clear of curing compounds, sealers, dirt, debris, or surface contaminants that would impede penetration of Shield LS Densifier. The application of Shield LS Densifier can begin five days after concrete placement or anytime on existing substrates.

Application: Apply PPC Shield LS Densifier with an airless or tank-type sprayer. Apply a small test area to confirm penetration. If product beads on the surface, contact PPC for additional information. If rain should occur at any time during this process, see 'Interrupted Installation' at the end of this section.

NOTE: Installation of PPC Shield LS Densifier does not require brooming, microfiber, or surface agitation for penetration. If microfiber is to be used, ensure that the pad is not oversaturated and distributes product evenly to avoid streaking.

1. Protect objects and areas not to be treated from spillage or overspray.
2. Apply one coat of PPC Shield LS Densifier uniformly wetting the surface. DO NOT allow PPC Shield LS Densifier to puddle or flood the surface.
3. Drying time will vary from 10 to 30 minutes depending on temperature and environment. NOTE: "Dry" means dry to the touch.
4. Clean all equipment with warm soapy water.

VERTICAL CAST-IN-PLACE INSTALLATION

1. Clean surface and remove any existing sealers, coatings, paint, dirt, and debris.
2. Apply the first coat of PPC Shield LS Densifier uniformly wetting the surface with an airless or tank-type sprayer.
3. Verify the first coat has dried to the touch before beginning the second coat.
4. Apply the second coat uniformly wetting the surface.
5. Clean all equipment with warm soapy water.

LIMITATION

Do not allow PPC Shield LS Densifier to come into contact with any glass, metal, or painted surfaces. Shield LS Densifier left to dry on the surface may result in streaking, whiting, or staining. Immediately wipe affected surfaces with a clean cloth.

INTERRUPTED INSTALLATION

If the application should be interrupted by rain, mark the place of interruption, and continue the application as soon as weather permits. If the delay exceeds 4 hours contact PPC for additional information.

HOT WEATHER INSTALLATION

Do not apply in temperatures above 120° F (48°C). Contact PPC for additional information.

COLD WEATHER INSTALLATION

Do not apply in temperatures below 32° F (0°C). Contact PPC for additional information.

LIMITED WARRANTY

PPC warrants its products to be free of manufacturing defects and that they will meet PPC current published physical properties. PPC warrants that its products, when properly installed by a state licensed contractor according to PPC guide specifications and product data sheets over a sound, properly prepared substrate, will not fail for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PPC of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PPC shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PPC shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PPC reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PPC makes no claim that these tests or any other tests, accurately represent all environments. For further information please contact us at the following email address: orders@premierprotectivecoatings.com or visiting www.premierprotectivecoatings.com

DISPOSAL

Any surplus material should be combined and allowed to cure. Upon curing, the product can be disposed of without any restrictive conditions. Uncured materials should be securely stored in an appropriate sealed container and disposed of in strict adherence to the applicable provincial, state, municipal, and federal regulations.

CAUTION

ALWAYS KEEP OUT OF THE REACH OF CHILDREN
KEEP FROM FREEZING CONDITIONS
INTENDED FOR INDUSTRIAL USE ONLY.