



# SPI COATINGS

PROVEN PERFORMANCE • REAL WORLD SOLUTIONS

**INSULATION  
AND  
CORROSION  
SPECIALISTS**

## SP INTERLOCK

### Technical Data Sheet (07/10/19)

#### DESCRIPTION

SP INTERLOCK is a concrete “conditioner” for use on aged and weathered concrete. It is a combination of non-acidic water-soluble agents, which penetrate through the open pores. Once absorbed, SP INTERLOCK works to replace lost solids within a concrete surface before being over-coated with Rust Grip®, Enamo Grip, or other coatings.

#### TYPICAL USES

- Sidewalks, walkways, driveways, etc.
- Anywhere concrete has lost solids

#### APPLICATION METHODS

SP INTERLOCK can be applied to old or new concrete. The application can be by brush or roller. For specific instructions on surface preparation, mixing and application, please refer to the SPI's application instructions for SP INTERLOCK.

#### TESTS AND CERTIFICATIONS

1. USDA Approved
2. Marine Approvals for salt water/maritime use:
  - US Coast Guard
  - ABS (American Bureau of Shipping)
  - IMO (International Marine Organization)

#### MINIMUM SPREAD RATE

Film Thickness:

New concrete-two coats with each coat at 16 mils wet/0.5 mils dry.

Old concrete-three coats with each coat at 16 mils wet/0.5 mils dry

NOTE: Do not overload as pores will get filled and unable to absorb topcoat.

#### DRY TIME

4 hours on new concrete and 12 hours on old concrete. Overcoat window begins in 24 hours; fully cures in 7 days.

#### PHYSICAL DATA

- ◆ Solids: By weight: 10% By volume: 3%
- ◆ Lead and Chromate free
- ◆ Weight: 9.27 lbs per gallon
- ◆ Vehicle Type: Water
- ◆ Shelf Life: up to 3 years unopened under appropriate storage conditions (see MSDS)
- ◆ VOC Level: less than 38 grams per liter
- ◆ Color: Dries clear
- ◆ Inhibits mold and mildew
- ◆ Non-flammable and gives off zero toxic gasses
- ◆ Increases the density of concrete

#### SAFETY PRECAUTIONS

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: proper ventilation, use of proper lamps, wearing of protective clothing and masks, tenting, and proper separation of application areas. For more specific safety procedures, please refer to the SP Interlock Material Data Safety Sheet. **KEEP OUT OF REACH OF CHILDREN.**

LIMITATION OF LIABILITY: The information contained in this data sheet is based upon tests that we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the products made by SPI, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge is reliable. The products and information are designed for users having the requisite knowledge and industrial skills, and the end-user has the responsibility to determine the suitability of the product for its intended use.

SPI has no control over either the quality of condition of the substrate, or the many factors affecting the use and application of the product. Therefore, SPI does not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The information contained in this data sheet is subject to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues and the user has the responsibility to ensure that this sheet is current prior to using the product.



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### Application Instructions (7/10/19)

*SP INTERLOCK is a concrete “conditioner” for use on aged and weathered concrete. It is a combination of non-acidic water-soluble agents, which penetrate through the open pores. Once absorbed, SP INTERLOCK works to replace lost solids within a concrete surface before being over-coated with Rust Grip®, Enamo Grip, or other coatings.*

#### **SURFACE PREPARATION**

##### Old Concrete:

1) Power wash surface (3,500 psi) with Chlor-Rid or equivalent to remove loose or flaking paint, rust and salts, and to clean the surface of dirt, oil, tar, grease and film.

2) Allow the concrete to completely dry.

**NOTE 1:** Concrete must be clean of all sealers, curing compounds, bond breakers, underlayment, patching compounds, floor mastics or any material which prevents open pores in concrete.

**NOTE 2:** Salt contamination on a surface can come as a result of salt water, fertilizers, and car exhaust. Use Chlor-Rid or equivalent to decontaminate surface if salts are present. Acceptable levels: Nitrates: 5-10 mcg/cm<sup>2</sup>, Sulfates: 5-10 mcg/cm<sup>2</sup>, Chlorides: 3-5 mcg/cm<sup>2</sup>.

##### New Concrete:

1) If used to delay cure, begin surface preparation seven days after concrete is laid.

2) Power wash surface (maximum 1,500 psi) with a citrus cleaner to clean the surface of dirt, oil, tar, grease and film.

3) Allow to dry completely before applying SP Interlock.

#### **MIXING**

When pail is opened, mix by hand or paddle for two minutes.

#### **APPLICATION**

SP Interlock can be applied by brush or roller:

- 1) If application is by brush, use a soft bristle brush.
- 2) If application is by roller, use a 3/8-inch nap roller.
- 3) On old concrete, apply SP Interlock in three applications.
- 4) The first coat should be spread at sixteen mils wet. After one day, the residues that come to the surface should be washed away.
- 5) Apply the second coat at sixteen mils wet and allow to stand overnight. Any residue that comes to the surface should be washed away.
- 6) Apply the third coat at sixteen mils wet and allow to stand overnight. Rinse the residue from the surface. The concrete should now be sealed.
- 7) On new concrete, apply SP Interlock in one to two coats according to absorption.
- 8) Apply the SP Interlock to a thickness of 16 mils wet. Allow to stand overnight. Any residue that comes to the surface should be washed away.
- 9) Apply a second coat of SP Interlock, if needed, to a thickness of 16 mils wet. Allow to set overnight. Wash off any residue on the surface. Concrete should now be sealed.

**NOTE:** If any of the coating pools on the surface, it should be mopped up.

#### **MINIMUM SPREAD RATES**

Film Thickness: New concrete--2 coats, 16 mils wet / ? mils dry, each coat.

Old concrete--3 coats, 16 mils wet/ ? mils dry, each coat

#### **CURE TIME**

1. Four hours dry time on new concrete at 70°F.
2. Twelve hours dry time on old concrete at 70°F.
3. Overcoat window begins at 24 hours at 70°F.
4. Fully cures in seven days.

#### **TEMPERATURE**

Apply between 50°F and 100°F.

Store between 40°F and 100°F.

#### **CLEAN-UP OF EQUIPMENT**

After completion, brushes and rollers can be cleaned with soap and water, stored and reused.

**SECTION I - IDENTIFICATION OF THE PRODUCT AND THE COMPANY:**

PRODUCT NAME: SP INTERLOCK

RECOMMENDED USE: Concrete sealer

MANUFACTURER: Superior Products International II, Inc.

ADDRESS: 10835 W. 78th St., Shawnee, KS 66214 USA

EMERGENCY TELEPHONE NUMBER: 800/424-9300; 202/483-7616

**SECTION II - COMPOSITION & INFORMATION ON INGREDIENTS:**

Sodium Silicate - 35% (CAS 1344-09-8)

Water - 65%

**SECTION III - HAZARD IDENTIFICATION:** This product is water-based and not classified as dangerous for supply or conveyance. The ingredients are water-reduceable. This product has been analyzed for use in and around food manufacturing and found to be safe for use on non-contact surfaces. No toxics or toxic off-gassing is present.

**SECTION IV - FIRST AID MEASURES:**

EYES: Flush with water for at least 15 minutes; consult physician if irritation continues.

INGESTION: Do not induce vomiting. Drink 1-2 glasses milk/water. Seek medical attention according to amount of product ingested.

SKIN: Wash with cool water for 15 minutes.

INHALATION: Remove to fresh air.

**SECTION V - FIREFIGHTING MEASURES:**

CONDITIONS OF FLAMMABILITY: Not flammable, water-based product

HAZARDOUS COMBUSTION PRODUCTS: none

AUTOIGNITION TEMP.: NAP MINIMUM IGNITION ENERGY: NAV

FLAMMABLE LIMITS: (Lower) NAP% (Upper) NAP% FIRE POINT: NAP

FLASH POINT &amp; METHOD: NAP SENSITIVITY TO MECHANICAL IMPACT? No

SENSITIVITY TO STATIC DISCHARGE? No

SPECIAL PROCEDURES: None required.

MEANS OF EXTINCTION: Non-combustible; water spray dry chemical CO2 or foam may be used in areas where this product is stored.

**SECTION VI - ACCIDENTAL RELEASE MEASURES:** Use kitty litter, sand or other absorbant materials to mop up and flush with water.

**SECTION VII - HANDLING AND STORAGE:**

STORAGE REQUIREMENTS: Keep from freezing. Store between 40-110F degrees.

HANDLING PROCEDURES/EQUIPMENT: Normal handling procedures for liquid products. Contact with acids will cause it to gel.

**SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

PERSONAL PROTECTIVE EQUIPMENT: Use NIOSH/MSHA-approved respirator if spraying, safety goggles, rubber gloves, standard work clothing and shoes.

ENGINEERING CONTROLS: Use adequate local exhaust ventilation.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:**

PHYSICAL STATE: Liquid	SOLUBILITY IN WATER: yes
APPEARANCE AND ODOR: colorless, turbid liquid	pH: 7.9
FREEZING POINT: 30F. degrees	BOILING POINT: 760mmHg 214F degrees
SPECIFIC GRAVITY: 1.41 @ 20C.	ODOR THRESHOLD: N/A
COEFF. WATER/OIL: N/A	EVAPORATION RATE: N/A
VOLATILES: 90	
VAPOUR DENSITY (Air = 1): N/A	
VAPOUR PRESSURE: N/A	

**SECTION X - STABILITY AND REACTIVITY:**

CONDITIONS OF REACTIVITY: stable                      CONDITIONS OF INSTABILITY: stable  
 CHEMICAL INCOMPATIBILITY: gels when mixed with acids  
 HAZARDOUS DECOMPOSITION PRODUCTS: none known  
 CORROSIVE BEHAVIOR? no

**SECTION XI - TOXICOLOGICAL INFORMATION:**

ROUTES OF ENTRY: SKIN CONTACT  SKIN ABSORPTION  EYE CONTACT   
 INHALATION  INGESTION   
 EXPOSURE LIMITS: PEL-2mg/m3 ceiling as NaOH; TLV-2mg/m3 ceiling as NaOH  
 EFFECTS OF ACUTE EXPOSURE: no known acute effects  
 EFFECTS OF CHRONIC EXPOSURE: no known chronic effects  
 MUTAGENICITY: none  
 TERATOGENICITY: none  
 REPRODUCTIVE TOXICITY: none  
 SENSITIZATION: none  
 CARCINOGENICITY: none  
 IRRITANCY: skin, eyes, respiratory and digestive tracts

**SECTION XII - ENVIRONMENTAL INFORMATION:**

Air -this product is environmentally-friendly and poses no threat to the air.  
 Water -the properties will dilute and dissipate when flushed with water.  
 Soil -the raw material contents are biodegradable in ground acids over a period of time. No ecological hazards are known to exist.

**SECTION XIII - WASTE DISPOSAL:** Product spill should be contained by previously described absorption methods, and dried product disposed of as normal industrial waste according to all federal, state or governmental regulations.

**SECTION XIV - TRANSPORT INFORMATION:** The only restriction to carriage is for protection against freezing. Contents are water-based.

**SECTION XV - REGULATORY INFORMATION:** Regulatory agency controls and restrictions are minimal regarding conveyance or use of water-based products other than what has been specifically addressed.

**SECTION XVI - OTHER INFORMATION:** NAP