



# SPI COATINGS

PROVEN PERFORMANCE • REAL WORLD SOLUTIONS

**INSULATION  
AND  
CORROSION  
SPECIALISTS**

## SP SEAL COAT

### Technical Data Sheet (05/29/19)

#### **DESCRIPTION:**

*SP SEAL COAT is a one component coating that combines three high performance water-borne resins. The coating is designed using a high quality elastomeric and a self-cross-linking resin system for long life and weathering, as well as against water that ponds, and having good dirt release. SP SEAL COAT is used as a topcoat over SUPER THERM, HPC or other base materials. It remains flexible and is resistant to mold and mildew. SP SEAL COAT can be applied over most firmly bonded paints or foams. Allow the base coat to dry before applying the SP SEAL COAT.*

#### **TYPICAL USES:**

- As a one-coat system on most types of roofs (except direct-to-metal).
- As a topcoat over all SPI base coats.
- Designed as a top coat for water resistance as it remains flexible.
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#### **APPLICATION METHODS:**

SP SEAL COAT can be rolled (1/2-inch nap), brushed or sprayed (airless, 3000 psi, .019-.023 tip). For specific instructions on surface preparation, mixing and application, please refer to the SPI's application instructions for SP SEAL COAT.

#### **PHYSICAL DATA:**

- ◆ Solids: By weight: 62.2% / By Volume: 49.5%
- ◆ 30-60 minutes to tack free at 70°F (21°C)
- ◆ Overcoat: 2 hours when 70°F (21°C) at 40% Relative Humidity
- ◆ Fully cures in 21 days
- ◆ Lead-, Chromate-, and asbestos-free
- ◆ Cures by heat and evaporation
- ◆ Weight: 11.5 lbs. per gallon
- ◆ Vehicle Type: Water-borne
- ◆ Shelf Life: up to 3 years unopened under appropriate storage conditions (see MSDS)
- ◆ VOC Level: 67 grams per liter
- ◆ Viscosity: 105-110 KU
- ◆ Can tolerate up to 300°F once cured
- ◆ Tinting: Can be factory tinted any light color with a minimum of 250 gallons ordered

#### **FIELD TESTING** of components has proven:

- \* The coating provides a water-resistant barrier
- \* The coating can withstand climate conditions without peeling, cracking or loss of adhesion
- \* The coating is resistant to mold and mildew
- \* The coating was designed to be flexible and elongate to move with the substrate, and to withstand the rigors of expansion and contraction
- \* Resistant ponding water areas with good dirt release.
- \* USDA approved under Directive 15000.4.

#### **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.

#### **KEEP OUT OF REACH OF CHILDREN.**

For more specific safety procedures, please refer to the SP SEAL COAT Material Safety Data Sheet.

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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## SP SEAL COAT

### Application Instructions (01/23/19)

*SP SEAL COAT is a one component coating that combines high performance acrylics in a water-borne formulation. The coating is designed using a high quality elastomeric and self-cross-linking resin system for long life and weathering, as well as against water that ponds, and having good dirt release. SP SEAL COAT is used as a topcoat over all SPI base coats. It remains flexible and is resistant to mold and mildew. SP SEAL COAT can be applied over most firmly bonded paints or foams.*

#### **SURFACE PREPARATION**

New construction (metal, concrete, masonry and wood):

- 1) Power wash surface (3,500 psi) using a cleaner to remove dirt, oil, tar, salts, grease and film.
- 2) Surface must be completely dry.

Previously coated (metal, concrete, masonry and wood):

- 1) Power wash surface (3,500 psi) to remove loose or flaking paint, rust stains, and to clean the surface of dirt, oil, tar, grease and film.
- 2) Be sure surface is dry before applying.
- 3) Apply SP Seal Coat directly over existing coatings or surfaces except metal. Prime bare metal
- 4) If existing coating surface has a gloss finish, gloss must be removed before SP Seal Coat is applied.

NOTE: If pack rust, scale or bright glossy surfaces exist, they must be removed by power tool or needle gun. Once removed, begin with step 1 (power wash). If surface has flash rusting, prime with RUST GRIP, then overcoat with SP SEAL COAT.

#### **MIXING**

- 1) SP Seal Coat should be mixed by hand or drill for two minutes and then applied.

NOTE: Once a container is opened and not fully used, snap the lid back in place and the product can be utilized at a future date (the lid must be firmly in place).

#### **APPLICATION**

SP SEAL COAT can be applied by brush, roller or spray:

- 1) If application is by brush, use a soft or medium bristle brush. It will take two coats to achieve the desired mil thickness when using a brush.
- 2) If application is by roller, use a 3/8-inch nap roller. It will take two coats to achieve the desired thickness when using a roller.
- 3) If application is by spray, use a standard airless sprayer (3,000 psi or less) with a carbon steel or titanium tip sized .019-.023 (all filters should be removed from the sprayer prior to application).
- 4) Normally, SP Seal Coat will be applied at 12 mils wet. Before beginning application, confirm the job specifications.
- 5) If SP Seal Coat is going to be applied to greater thickness it should be applied in multiple coats no more than 16 mils wet/8.0 mils dry, each coat to prevent cracking at the surface.
- 6) Bare metal surfaces must be primed and free of rust.

#### **MINIMUM SPREAD RATES**

Film Thickness: All substrates - 12 mils wet/6 mils dry

NOTE: If application is by brush or roller, two coats may be required to achieve to the desired thickness. Apply at 130 sq.ft./gallon (12mils wet/6 mils dry).

#### **CURE TIME**

- 1) One hour to touch at 70°F.
- 2) Over-coating window begins at four hours at 70°F. or higher.
- 3) Fully cures in 21 days.

#### **TEMPERATURE**

- 1) Apply between 50°F. and 100°F.
- 2) Store between 50°F. and 100°F.

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

- 1) After completion, spray systems should be cleaned with soap and water.
- 2) After completion, brushes and rollers can be cleaned with soap and water, stored and reused

# SAFETY DATA SHEET (SUN/11/00)

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

PRODUCT NAME: SP SEAL COAT

GHS PRODUCT IDENTIFIED: Global Harmonized System #3209.10.0000

CHEMICAL TYPE: Waterbased coating

MANUFACTURER: Superior Products International II, Inc.

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

PRODUCT USE: Topcoat over Super Therm in low slope roofing applications

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

## **SECTION II - 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 III - HAZARDOUS INGREDIENTS:**

Texanol - 0.5-1.5% (CAS #25265-77-4) Mica - 1.5-3% (CAS #12001-26-2)

## **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 mild soap and water.

INHALATION: Remove to fresh air.

## **SECTION V - FIRE FIGHTING MEASURES:**

CONDITIONS OF FLAMMABILITY: Not flammable, water-based product

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, methacrylate and other noxious gases

AUTOIGNITION TEMP.: NAP MINIMUM IGNITION ENERGY: NAV

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

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

SENSITIVITY TO STATIC DISCHARGE? No

SPECIAL PROCEDURES: Firefighters should wear full-body protection & SCBA

MEANS OF EXTINCTION: Water, water fog, dry chemical, foam or CO2

## **SECTION VI - ACCIDENTAL RELEASE MEASURES:**

Use kitty litter, sand or other to control spread and absorb liquid.

## **SECTION VII - HANDLING AND STORAGE:**

STORAGE REQUIREMENTS: Keep from freezing. Store below 50C. degrees. Keep container closed tightly to prevent drying out.

HANDLING PROCEDURES/EQUIPMENT: Treat as paint product. Use ventilation and protective equipment to suit conditions of use. Use soap and water for clean-up.

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

PERSONAL PROTECTIVE EQUIPMENT: Avoid inhalation of liquid when applying. Use particulate respirator.

ENGINEERING CONTROLS: Use mechanical ventilation to control aerosol or mist if product is sprayed.

NAP = Not Applicable

NAV = Not Available

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

PHYSICAL STATE: Liquid	SOLUBILITY IN WATER: soluble/miscible
APPEARANCE AND ODOR: white color, mild acrylic odor	
FREEZING POINT: 30F. degrees	BOILING POINT: 192C degrees      pH: 8
SPECIFIC GRAVITY: 1.29	ODOR THRESHOLD: 0.08-25ppm
COEFF. WATER/OIL: NAV	EVAPORATION RATE: slow%
VAPOUR DENSITY (Air = 1): 2.1	VOLATILES: less than 5
VAPOUR PRESSURE: 17mmHg @ 20C degrees	

**SECTION X - STABILITY AND REACTIVITY:**

CONDITIONS OF REACTIVITY: stable      CONDITIONS OF INSTABILITY: stable  
 CHEMICAL INCOMPATIBILITY: strong acids or bases  
 HAZARDOUS DECOMPOSITION PRODUCTS: none known, no hazardous polymerization  
 CORROSIVE BEHAVIOR? no

**SECTION XI - TOXICOLOGICAL INFORMATION:**

ROUTES OF ENTRY: SKIN CONTACT \_\_\_ SKIN ABSORPTION \_\_\_ EYE CONTACT X  
 INHALATION \_\_\_ INGESTION X SYNERGISTIC PRODUCTS none known  
 EXPOSURE LIMITS: mica 3mg/m (ACGIH)  
 EFFECTS OF ACUTE EXPOSURE: liquid splash could result in eye or nose irritation and/or headache  
 EFFECTS OF CHRONIC EXPOSURE: excessive exposure to liquid product may result in minor irritations  
 MUTAGENICITY: NAP      TERATOGENICITY: NAP  
 REPRODUCTIVE TOXICITY: NAP      SENSITIZATION: not expected  
 CARCINOGENICITY: ingredients not listed  
 IRRITANCY: possible skin or eye irritation if not washed off

**SECTION XII - ENVIRONMENTAL INFORMATION:**

Air -this product is environmentally-friendly and poses no threat to the air.  
 Water -the resins will be diluted and dissipate when flushed with water.  
 Soil -the resin 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