



# SPI COATINGS

PROVEN PERFORMANCE • REAL WORLD SOLUTIONS

**INSULATION  
AND  
CORROSION  
SPECIALISTS**

## SUPER BASE/HS

### Technical Data Sheet (08/21/19)

#### **DESCRIPTION**

SUPER BASE/HS is a one-part water-based acrylic coating that is easily applied without environmental concerns, and used as a base coat for either SUPER THERM® or SUNSHIELD. SUPER BASE/HS can be used as a base coat to seal tar, asphalt, shingles, rubber, concrete, or wood roofs.

#### **TYPICAL USES**

- As a base coat to seal tar roofs, asphalt shingles, rubber roofs, concrete and wood.
- As an intermediate coat over MASTIC SEALING TAPE on joints and seams, and around air conditioning units and vents or on any areas where leaks would most likely happen.
- As a base coat for SUPER THERM® and SUNSHIELD to fill and seal seams, as well as around penetrations and protrusions.
- As the first layer of a roofing system, applied at 30 sq ft/gallon.

#### **APPLICATION METHODS**

SUPER BASE/HS can be applied to metal, concrete, masonry and wood. The application can be spray, brush or roller. For specific instructions on surface preparation, mixing and application, please refer to the SPI's application instructions for SUPER BASE/HS. This coating should never be applied at less than 16 mils wet (400 microns), 10 mils dry (250 microns), each coat.

#### **MINIMUM SPREAD RATES:**

Film thickness:

Mentioned substrates – minimum 25 to 30 mils wet/12.5 to 15 mils dry to seal pores.

**NOTE:** As a sealant for roofing over small cracks or holes, apply at a total of 50 mils wet/31 mils dry.

**NOTE:** For modified bitumen, granulated modified bitumen or capsheet, apply at 75 sq.ft./gallon due to absorption of oils.

**NOTE:** For shingles, apply at 30 sq.ft./gallon.

#### **TESTS AND CERTIFICATIONS**

1. USDA approved
2. MBDC Product Certification
3. ASTM E-84: '0' flame spread, Class A (class 1)

#### **FIELD TESTING RESULTS:**

Field tests have proven:

1. SUPER BASE/HS will provide a solid base coat on previously mentioned substrates for SUPER THERM® and SUNSHIELD.
2. SUPER BASE/HS will seal small roof cracks. For holes and large cracks, use with MULTI-MESH MEMBRANE.
3. As a topcoat on MASTIC SEALING TAPE, on seams and minor cracks, or anywhere leaks are most likely.

#### **PHYSICAL DATA**

- ◆ Solids: By weight 63.9% / By Volume: 50%
- ◆ 30-60 minutes to tack free at 70°F (21°C)
- ◆ Overcoat: 4 hours when 70°F (21°C) at 40% Relative Humidity
- ◆ Full Cure: 10 days
- ◆ Lead and chromate free
- ◆ Cures by evaporation
- ◆ Weight: 11.80 lbs. per gallon
- ◆ Vehicle Type: Urethane/Acrylic Elastomeric
- ◆ Shelf Life: Up to 3 years if unopened under appropriate storage conditions (See MSDS).
- ◆ VOC Level: 45 grams/liter - .38 lbs/gallon
- ◆ Viscosity: 200 KU – 30,000cp (+/- 5000cp)
- ◆ Maximum Surface Temperature when applying: 150°F (65°C)
- ◆ Minimum Surface Temperature when applying: 40°F (5°C)
- ◆ Maximum Surface Temperature after curing: 300°F (149°C)

#### **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 SUPER BASE/HS Safety Data 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).

Information contained in this data sheet is subject to modification as a result of experience and continuous product development. This data sheet replaces and previous issues and the user has the responsibility to ensure that this sheet is current on the product.



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### Application Instructions (4/3/09)

*SUPER BASE/HS is a one-part water-based acrylic coating that is easily applied without environmental concerns, and used as a base coat for either SUPER THERM® or SUNSHIELD. SUPER BASE/HS can be used as a base coat to seal tar, asphalt, shingles, rubber, concrete, or wood roofs.*

#### **SURFACE PREPARATION**

Surface must be clean from oil, tar, rust, grease, salts, and films.

- 1) Use general degreaser if needed.
- 2) Clean surface using TSP (tri-sodium-phosphate) or a citrus cleaner to release dirt and degreaser residue.
- 3) Pressure-wash if possible @ 3500 psi.
- 4) 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>

#### **Surface must be completely dry before applying.**

- 1) SUPER BASE/HS must be applied during proper temperatures (below) and the prescribed overcoat window of the coating over which it will be applied.
- 2) Maximum Surface Temperature when applying: 150°F (65°C)
- 3) Minimum Surface Temperature when applying: 40°F (5°C)
- 4) Maximum Surface Temperature after curing: 300°F (149°C)

**NOTE:** Use Rust Grip® as a primer when needed. Refer to Rust Grip technical data sheet for overcoat window.

**NOTE:** If pack rust or mill scale exist, it must be removed by grit blast, power tool or needle gun. Once removed, begin with Step 1 (power wash).

#### **Mobile Homes:**

- 1) Use Mastic Sealing Tape over all leaks.
- 2) Apply SUPER BASE/HS over the tape.
- 3) Apply SUPER THERM® over the entire roof for insulation.

#### **MIXING**

SUPER BASE/HS should be mechanically mixed or mixed by hand for three minutes, then applied.

#### **APPLICATION METHODS**

SUPER BASE/HS can be applied by brush, roller or spray; however, the preferred method is by air or airless sprayer. It should never be applied directly over rust, nor should it ever be diluted or thinned.

- 1) If application is by brush, use a soft bristle brush.
- 2) If application is by roller, use a 1/4 inch nap roller.
- 3) If application is by spray, use a standard airless sprayer (2 gallons/minute at 3,300 psi.) with a .029-.033 tip.

**NOTE:** The number of applications and the thickness of each should be in accordance with the job specifications.

**NOTE:** All filters should be removed from both the gun handle and spray machine prior to application, as they will trap the ceramics.

**NOTE:** Temperatures must always be a minimum of 5 degrees above the dew point during application.

#### **CURE TIME**

- 1) One hour to touch at 70°F. and bright sun.
- 2) Over-coating window begins at four hours at 70°F.
- 3) Fully cures in ten days.

#### **TEMPERATURE**

- 1) Apply between 50°F. and 100°F.
- 2) Store between 40°F. and 100°F.

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

- 1) After completion, spray system 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 (SB/11/00)

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

PRODUCT NAME: Super Base (HS) (UPC#851207002034, SKU#768630, Part#318)  
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: A base sealant for substrates  
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 - HAZARD INGREDIENTS:**

Titanium Dioxide - 15%                      Mica/Additives - 20%  
Acrylic polymers - 45%                      Water - 20%

## **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 - FIREFIGHTING 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
SPECIFIC GRAVITY: 1.4	ODOR THRESHOLD: 0.08-25ppm
COEFF. WATER/OIL: NAV	pH: 8
VAPOUR DENSITY (Air= 1): 2.1	VAPOUR PRESSURE: 17mmHg @ 20C degrees
EVAPORATION RATE: slow%	VOLATILES: less than 5

**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 \_\_\_  
 INHALATION \_\_\_ INGESTION \_\_\_ 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

