



SPI COATINGS

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SP SEAL COAT HT

Technical Data/Application Sheet (06/27/25)

SP SEAL COAT HT is a single-component hybrid resin, water-based coating using specific ceramic loads for application directly over HPC to seal and face up to 500°F (260°C). It was designed to provide a seal for HPC to block water/moisture absorption and seal the surface.

HPC offers a 'green', nonflammable, non-toxic formula for surface applications. SP SEAL COAT HT is easily applied and can be applied direct to HPC. It will give additional protection for CUI development.

TYPICAL USES

- As the top coat for HPC. This is one optional top coat but is designed to face high heat.
- Coating surface will never be hard. It is designed to stay flexible and prevent cracking over a surface that is prone to move.

SURFACE PREPARATION

Assure that the surface of HPC is clean from residues, dirt and debris.

Mix with SPI's 6" diameter dispersion blade at a low to medium speed until you achieve a smooth texture.

APPLICATION

SP SEAL COAT HT can be applied by airless or texture sprayer, roller or brush. SP SEAL COAT HT will dry in ambient, or faster if heat is applied.

NOTES:

- Overspray with a hopper gun can be 15-20% loss and must be factored in. Using a TexSpray 2000, overspray will be less, 10-15%.
 - * If using airless, 2.5 and up gallon per minute with .035 tip.
 - * If using hopper gun or TexSpray 2000, use small or medium tip with machine.
 - * Remove all filters from gun.
- SP SEAL COAT HT is applied 20 mils (0.5mm).
- Open and stir; has a slight textured look.
- Blended silicone which causes a longer ambient dry down.
- Before overcoating HPC, use moisture gauge and assure it is below 20% moisture inside the HPC before overcoating.
- When applying over HPC, add 40% more product to cover the roughness or extra surface area.

MINIMUM SPREAD RATES (mil thickness)

63 sq.ft./gal. = 17 mils dry (5.8 sq.mtr. = 0.4mm).
Can be applied in one or two coats.

PHYSICAL DATA

- ◆ Solids: By Weight: 56.7%/ By Volume: 67.2%
- ◆ Dry Time: If 70°F, it will take 24 hours
- ◆ Applied over a 140°F (60°C) surface; to touch-40 minutes/recoat-1 hour
- ◆ Lead and chromate free
- ◆ Water-borne
- ◆ Cures by evaporation
- ◆ Weight: 7.8 lbs. per gallon (3.5-kilos)
- ◆ Vehicle Type: Silicone/acrylic blend
- ◆ Shelf Life: Up to 2 years if unopened under appropriate storage conditions (See SDS)
- ◆ VOC Level: 49 grams/liter, 0.41 lbs./gal.
- ◆ pH: 9.8
- ◆ Maximum Surface Temperature when applying: 450°F (232°C)
- ◆ Minimum Surface Temperature when applying: 40°F (5°C)
- ◆ Maximum Surface Temperature 'after curing': 500°F (265°C)

CLEAN-UP EQUIPMENT

Systems should be flushed with soap and water, and waste product disposed of properly.

Storage of Product: Store SP SEAL COAT HT between 40°F (5°C) and 120°F (49°C).

IMPORTANT

Do not take internally. Avoid contact with eyes. If solution does come in contact with eyes, flush immediately with water and contact a physician for medical advice. Avoid prolonged contact with skin or breathing of spray mist. **KEEP OUT OF REACH OF CHILDREN.**

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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.

SAFETY DATA SHEET (E/S/10/02)

pg 1 of 2

SECTION I - IDENTIFICATION OF PRODUCT AND COMPANY:

PRODUCT IDENTIFIER: SP SEAL COAT HT
GHS PRODUCT IDENTIFIED: Global Harmonized System #3209.10.0000
CHEMICAL TYPE: Water-based
MANUFACTURER: SUPERIOR PRODUCTS INT'L II, INC.
ADDRESS: 10835 W. 78th St., Shawnee, KS 66214
PRODUCT USE: To seal pipes and stop CUI
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:

<u>HAZARDOUS INGREDIENTS</u>	<u>%</u>	<u>CAS/PIN</u>	<u>TLV</u>	<u>PEL</u>
Acrylic Polymers	70.0	9003-01-4	NAV	NAV
Mica/additives	30.0	12001-26-2	NAV	NAV

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.: OR=NA MINIMUM IGNITION ENERGY: NAV
FLAMMABLE LIMITS: (Lower) NAP (Upper) NAP FIRE POINT: NAP
FLASH POINT & METHOD: NAP SENSITIVITY TO MECHANICAL IMPACT? NAP
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 VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Personal Protective Equipment: Avoid inhalation of liquid when applying; use particulate respirator.

Engineering Controls: Mechanical exhaust fans to control aerosol or mist if product is sprayed.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE AND ODOR: Yellowish liquid, no odor

SOLUBILITY IN WATER: Complete **VOLATILES:** NAP

FREEZING POINT: 32F **BOILING POINT:** >212F. deg. **pH:** NAP

SPECIFIC GRAVITY: 1.3-1.5 **ODOR THRESHOLD:** NAV

COEFF. WATER/OIL: NAV **EVAPORATION RATE:** NAP

VAPOUR DENSITY (Air = 1): NAV **VAPOUR PRESSURE:** NAV

SECTION X - STABILITY AND REACTIVITY DATA:

CONDITIONS OF REACTIVITY: No reactivity

CHEMICAL INCOMPATIBILITY: ND

CONDITIONS OF INSTABILITY: Stable, under normal conditions

HAZARDOUS DECOMPOSITION PRODUCTS: If stored properly, none known

CORROSIVE BEHAVIOR? NO

SECTION XI - TOXICOLOGICAL PROPERTIES:

ROUTES OF ENTRY:SKIN CONTACT X EYE CONTACT X INHALATION X

SYNERGISTIC PRODUCTS NAV **EXPOSURE LIMITS:** NAV

EFFECTS OF ACUTE EXPOSURE: Burning sensation on mucous membranes & respiratory tract. Flu-like symptoms (fever and chills); skin irritation

EFFECTS OF CHRONIC EXPOSURE: Chemical asthma - chest tightness, wheezing, coughing, shortness of breath. Can cause lung damage.

MUTAGENICITY: NAV

CARCINOGENICITY: NAV

IRRITANCY: Burning sensation to skin (high pH)

TERATOGENICITY: NAV

REPRODUCTIVE TOXICITY: NAV

SENSITIZATION: Can cause future reaction to lesser amounts

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

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