



**HPC<sup>®</sup>**

## Technical Data Sheet (10/26/11)

### DESCRIPTION

HPC<sup>®</sup> Coating is designed to control heat transfer on surface temperatures up to 900°F (482°C). It is waterborne and extremely lightweight in appearance. HPC<sup>®</sup> Coating uses a special acrylic resin blend with specific ceramic compounds added to provide a non-conductive block against heat transfer.

HPC<sup>®</sup> Coating offers a "Green", non-flammable, nontoxic formula for high heat surface applications over standard steam pipe or oven wall construction. HPC<sup>®</sup> Coating is easily applied using a texture sprayer, and can be applied over metal, concrete, wood, and other substrates.

A pint of cross-linking agent is shipped separately with each 5-gallon pail of HPC<sup>®</sup>. It should be mixed into pail when stirring before use.

### TYPICAL USES

- As an insulation system over hot pipes, tanks, and valves
- To block heat migration into cold tanks, lines, and valves
- As a system to block conductive and convective heat
- Easily applied when a hot system cannot be shut down

### APPLICATION METHOD

HPC<sup>®</sup> Coating should only be used for applications less than 700°F (371°C) Degrees unless directed by manufacturer.

HPC<sup>®</sup> Coating can be applied to metal, concrete, masonry and wood.

The application is applied using a texture sprayer. For specific instructions on surface preparation, mixing and application, please refer to the SPI Application Instruction sheet for HPC<sup>®</sup> Coating.

If HPC Coating is applied on surfaces outdoors, you **must** overcoat the HPC with Super Therm<sup>®</sup>, Rust Grip<sup>®</sup>, SP Liquid Membrane or Enamo Grip according to what is needed. It cannot be left uncoated and left exposed to weather conditions. It is light-weight to insulate, which leaves it vulnerable to weather conditions.

### TESTS AND CERTIFICATIONS

1. ISO83 02/ASTM C177 – Thermal Conductivity (0.063 W/mK @86°F/30°C)
2. ASTM E 84 – Class A

3. ISO83 02 – Thermal Conductivity
4. IMO – MSC.61(67) Smoke and Toxicity Test
5. Marine Approvals – American Bureau of Shipping
6. USDA Approved

### MINIMUM SPREAD RATES(mil thickness)

- 25.0 sq .ft./gal = 50 mils dry film thickness
- 12.5 sq .ft./gal = 100 mils dry film thickness
- 6.2 sq. f t./gal = 200 mils dry film thickness
- 5.0 sq. f t./gal = 250 mils dry film thickness

### PHYSICAL DATA

- ◆ Solids: By Weight: 50.74% / By Volume: 75.00%
- ◆ Dry Time: If between 200-300°F; 10-30 minutes per coat, or until steaming action has finished.
- ◆ Lead and chromate free
- ◆ Water-borne
- ◆ Cures by evaporation
- ◆ Weight: 5.0 lbs. per gallon
- ◆ Vehicle Type: Urethane / Acrylic Blend
- ◆ Shelf Life: Up to 1 year if unopened under appropriate storage conditions (See MSDS)
- ◆ VOC Level: 14 grams/ liter
- ◆ pH: 8.5- 9.0
- ◆ USDA Approved
- ◆ Maximum Surface Temperature when applying: 900° F (482° C)
- ◆ Minimum Surface Temperature when applying: 40° F (5° C)
- ◆ Maximum Surface Temperature after curing: 900° F (482° 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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