



# HSC<sup>®</sup> Coating

## Technical Data Sheet (11/17/10)

### DESCRIPTION

HSC<sup>®</sup> Coating is designed to control heat transfer on surface temperatures up to 350°F degrees (176°C). It is water-borne, and extremely lightweight and smooth in appearance. HSC<sup>®</sup> Coating uses a special acrylic resin blend with specific ceramic compounds added to provide a non-conductive block against heat transfer.

HSC<sup>®</sup> Coating offers a "Green", non-flammable, non-toxic formula for medium heat surface applications over standard steam pipe or oven wall construction. The coating was originally designed for hot applications where temperature exposures fall below those that would require the use of HPC<sup>®</sup> Coating. HSC<sup>®</sup> Coating is more easily applied for a smooth finish. It can be applied over metal, concrete, wood, and other substrates.

### TYPICAL USES

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

### APPLICATION METHOD

HSC<sup>®</sup> Coating should be used for applications 350°F degrees (176°C) or lower. Apply HPC<sup>®</sup> Coating for applications between 350°F degrees (176°C) and 700°F degrees (371°C).

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

The application can be by spray, brush or roller. For specific instructions on surface preparation, mixing and application, please refer to the SPI Application Instruction sheet for HSC<sup>®</sup> Coating.

### TESTS AND CERTIFICATIONS

1. ASTM C 177 – Thermal Conductivity (0.07W/mK @ 212°F/100°C)
2. ASTM E 84 – Class A
3. ASTM D 6904 – Resistance to Wind Driven Rain
4. IMO – MSC.61(67) Smoke and Toxicity Test
5. Marine Approvals – American Bureau of Shipping;
6. USDA Approved

### MINIMUM SPREAD RATES (mil thickness)

- 26.0 sq. ft./gal = 50 mils dry film thickness
- 13.0 sq. ft./gal = 100 mils dry film thickness
- 6.5 sq. ft./gal = 200 mils dry film thickness
- 5.2 sq. ft./gal = 250 mils dry film thickness

### PHYSICAL DATA

- Solids: By Weight: 50.98% / By Volume: 77.93%
- Dry Time: If over 200-300°F.; 10-30 minutes percoat, or until steaming action has finished.
- Lead and chromate free
- Water-borne
- Cures by evaporation
- Weight: 4.5 lbs. per gallon
- Vehicle Type: Urethane / Acrylic Blend
- Shelf Life: Up to 1 year if unopened under appropriate storage conditions (See MSDS)
- VOC Level: 70 grams/liter
- pH: 8.5-9.0
- USDA Approved
- Maximum Surface Temperature when applying: 350 °F (176 °C)
- Minimum Surface Temperature when applying: 40 °F (5 °C)
- Maximum Surface Temperature after curing: 350 °F (176 °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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