



HSC® Coating

Technical Data Sheet (12/13'17)

DESCRIPTION

HSC® 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® Coating uses a special acrylic resin blend with specific ceramic compounds added to provide a non-conductive block against heat transfer.

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

HSC® 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® Coating.

If HSC Coating is applied on surfaces outdoors, you **must** overcoat the HSC with Super Therm®, Rust Grip®, 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. ASTM C 177 – Thermal Conductivity (0.07 W/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)

50 mils dry	24 sq.ft./gal
100 mils dry	12 sq.ft./gal
200 mils dry	6 sq.ft./gal
250 mils dry	4.8 sq.ft./gal

PHYSICAL DATA

- ◆ Solids: By Weight: 50% / By Volume: 70% (+/- 2%)
- ◆ Dry Time: If over 200-300°F.; 10-30 minutes per coat, or until steaming action has finished.
- ◆ Water-borne
- ◆ Cures by evaporation
- ◆ Weight: 4.9 lbs. per gallon
- ◆ Vehicle Type: Acrylic Blend
- ◆ Shelf Life: Up to 1.5 years if unopened under appropriate storage conditions (See MSDS)
- ◆ VOC Level: 19 grams/liter, 0.158 lbs./gal.
- ◆ pH: 8.7-9.7
- ◆ 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)
- ◆ HSC Coating will not totally burn. Any initial flame will burn off the surface resin before charring and blocking the flame.

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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