The right coating for ultimate protection.

Technical Data Sheet (11/21/14)

DESCRIPTION

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

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

If HPC® Coating is to be applied over flat steel surfaces, see manufacturer for instructions.

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® Coating should only be used for applications less than 700°F (371°C) degrees; if over 700F, apply according to manufacturer's instructions.

HPC® Coating can be used for applications over 700°F (371°C) up to 900°F (482°C) but only according to the manufacturer's instructions.

HPC® 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® Coating.

If HPC® Coating is applied on surfaces outdoors, you **must** overcoat the HPC 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.

HPC® Coating must be completely dry before applying top coat.

HPC® Multi-Mesh Membrane System is used on hot pipes when continuous cycles cause movement, and where continuous impact caused by workers handling the hot pipe is unavoidable. Apply Multi-Mesh Membrane between layers of RUST GRIP or MOIST METAL GRIP for exterior toughness. Multi-Mesh Membrane combined with RUST GRIP or MOIST METAL GRIP forms a hard cast for exterior strength and moisture barrier to protect the HPC system. A final top-coat of SP LIQUID MEMBRANE should be added for impact resistance and movement from elongation during heat cycles to avoid stress cracks.

TESTS AND CERTIFICATIONS

1. ISO8302/ASTM C 177 – Thermal Conductivity (0.063 W/mK @ 86°F/30°C)
2. ASTM E 84 – Class A
3. ISO 8302 – 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)

23.0 sq. ft./gal = 50 mils dry film thickness
11.5 sq. ft./gal = 100 mils dry film thickness
5.75 sq. ft./gal = 200 mils dry film thickness
4.7 sq. ft./gal = 250 mils dry film thickness

PHYSICAL DATA

Solids: By Weight: 47.0% / 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: 25.1 grams/liter, 0.209 gal./lbs.
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)
HPC 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.**

Eagle Specialized Coatings And Protected Enviroments
18523 Fraser Hwy, Surrey, BC, CANADA V3S 8E7
Tel: (604) 576 - 2212
Fax: (604) 576 - 7773
www.Eaglecoatings.net