SUPERIOR PRODUCTS EUROPE

HOT SURFACE COATING™

TECHNICAL SHEET

DESCRIPTION

HOT SURFACE 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. HOT SURFACE COATING uses a special acrylic resin blend with specific ceramic compounds added to provide a non-conductive block against heat transfer. HOT SURFACE COATING offers a "Green", non-flammable, nontoxic 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 HOT PIPE COATING. HOT SURFACE 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

HOT SURFACE COATING should be used for applications 350°F degrees (176°C) or lower. Apply HOT PIPE COATING for applications between 350°F degrees (176°C) and 700°F degrees (371°C). HOT SURFACE 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 SPE Application Instruction sheet for HOT SURFACE COATING. If HOT SURFACE COATING is applied on surfaces outdoors, you **must** overcoat the HOT SURFACE COATING with SUPER THERM, RUST GRIP, ENDUROOF or ENAMO GRIP according to what is needed (please contact SPE for further instructions). It cannot be left uncoated and left exposed to weather conditions. It is light-weight to insulate, which leaves it vulnerable to weather conditions.

NOTE: In situations where there is continuous cycles causing movement, and/or risk of contraction and/or expansion, or regular handling of the pipe is unavoidable, please contact SPE for further instructions to support the application of HOT SURFACE COATING.

TESTS AND CERTIFICATIONS

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

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MINIMUM SPREAD RATES (mil thickness)

- 23.0 sq. ft./gal = 49.38 mils dry film thickness (2.14 m²/gal = 1.25mm dry film)
- 11.5 sq. ft./gal = 98.75 mils dry film thickness (1.07m²/gal = 2.50mm dry film)
- 5.6 sq. ft./gal = 199.23 mils dry film thickness (0.53m²/gal = 5.06mm dry film)
- 4.5 sq. ft./gal = 252.36 mils dry film thickness (0.42m²/gal = 6.41mm dry film)

PHYSICAL DATA

- Solids: By Weight: 49,1% / By Volume: 70,8% (+/- 2%)
- Dry Time: If over 200-300°F; 10-30 minutes per coat, 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 SDS)
- VOC Level: 19 grams/liter, 0.158 gal/lbs
- 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)
- HOT SURFACE COATING will not totally burn. Any initial flame will burn off the surface resin before charring and blocking the flame.

SAFETY PRECAUTIONS

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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