



SUPERIOR PRODUCTS INTERNATIONAL II, INC.

HPC[®] COATING and HSC[®] COATING

HPC[®] Coating: High Temperature Coating

Get heat protection that surpasses conventional insulation with HPC[®] Coating. HPC[®] Coating is a ceramic based, water-borne insulating coating designed to insulate in high temperature situations. Use HPC[®] Coating as a base coat/primer or build layers for additional protection.

This insulation method is much different than the traditional “wrap” insulation materials that only slow down the loss of heat (known as an R rating or “heat transfer”). The seven ceramic compounds used create a barrier to catch and hold heat on the surface of the unit—be it pipe, furnace surface, boiler, etc. Unlike wraps that use air as the insulation component, the ceramic compounds in HPC[®] Coating resist absorbing heat trying to come off the surface to escape. This traps and holds the heat onto the surface for more effective insulation performance.

Benefits of HPC[®] Coating:

- **Easy to Apply** - Apply directly to hot pipes while operating.
- **Increased Insulation** - Additional coats immediately reduce surface temperature and loss of heat.
- **Long Lasting** – Does not absorb humidity or lose insulation value with overcoat of Super Therm[®].
- **Safe** - HPC[®] Coating is non-flammable and non-toxic.
- **Coverage** – Can be sprayed to fit over any configuration or shape.

Uses:

- Reduction of external temperature of hot surfaces as an aid to worker safety
- Reduction of heat loss for energy savings
- Stops condensation
- Stops CUI (corrosion under insulation)

Preparation:

- Surface must be clean and completely dry, with no loose debris or particles, rust, dirt, oil, films or residues of any kind. HPC[®] Coating will cover previous coatings, provided they are fully adhered to the surface and no gloss surface
- Mechanically stir, as formula will tighten and give the appearance of cake or putty. Stirring loosens and relaxes the consistency.

Application methods:

- Graco Texspray RTX 1500 using 2mm nozzle
- Over hot surfaces apply a 50 wet mil (1.25 mm) primer coat to allow a steaming-off and cooling of surface to avoid bubbles, and then increase thickness with additional coats as needed



Applied rate:

- 80 sq. ft./gal. (7.4 sq.m./gal.) as primer
- 2.4 - 9.6 sq. ft./gal. (0.22 – 0.9 sq.m./gal.) with build coats (125 mils - 500 mils dry per coat)

Film thickness:

- 50 mil wet (1.25 mm) as primer
- 125 - 800 mils dry (3 – 20 mm) with build coats depending on need to control different ranges of heat
- Fire Control System 800 mils - 1600 mils (20 mm - 40 mm) as the primer before Omega Fire™ top coat.

Dry times:

- 10 minutes as primer over hot surface, then increase thickness as needed.
- 24 hours to set

Precautions:

- Do not use for exterior applications unless top coated with Super Therm® for long term durability.

Limitations:

- Do not use for underwater applications.
- HPC® Coating is light yellow in color and rough in texture
- Not recommended as the only fire protection material to be used in residential or industrial construction
- Do not use as floor coating
- Not UV protected. For external use overcoat with Super Therm®

HSC® Coating: Medium Temperature Coating

Get heat protection that surpasses conventional insulation with HSC® Coating. HSC® Coating is a ceramic based, water-borne insulating coating designed to insulate in medium temperature situations. Use HSC® Coating as a base coat/primer or build layers for additional protection.

This insulation method is much different than the traditional “wrap” insulation materials that only slow down the loss of heat (known as an R rating or “heat transfer”). The seven ceramic compounds used create a barrier to catch and hold heat on the surface of the unit—be it pipe, furnace surface, boiler, etc. Unlike wraps that use air as the insulation component, the ceramic compounds in HSC® Coating resist absorbing heat trying to come off the surface to escape. This traps and holds the heat onto the surface for more effective insulation performance.

Benefits of HSC™ Coating:

- **Easy to Apply** - Apply directly to hot pipes while operating with brush, roller, or airless sprayer.
- **Increased Insulation** - Additional coats immediately reduce surface temperature and loss of heat.
- **Long Lasting** – Does not absorb moisture or lose insulation value.
- **Safe** - HSC® Coating is non-flammable and non-toxic.
- **Coverage** – Can be brushed or sprayed to fit over any configuration or shape.



Uses:

- Reduction of external temperature of hot surfaces as an aid to worker safety
- Reduction of heat loss for energy savings
- Stops condensation
- Helps to stop CUI (corrosion under insulation) by blocking heat loss

Preparation:

- Surface must be clean and completely dry, with no loose debris or particles, rust, dirt, oil, films or residues of any kind. HSC[®] Coating will cover previous coatings, provided they are fully adhered to the surface and no gloss surface
- Mechanically stir, as formula will tighten. Stirring loosens and relaxes the consistency.

Application methods:

- Graco Texspray RTX 1500 or airless sprayer (2,800 psi minimum with .035 tip)
- Apply a 50 wet mil (1.25 mm) primer coat to allow a steaming-off and cooling of surface to avoid bubbles, and then increase thickness with additional coats as needed

Applied rate:

- 80 sq. ft./gal. (7.4 sq.m./gal.) as primer
- 4.8 - 9.6 sq. ft./gal. (0.44 – 0.9 sq.m./gal.) with build coats

Film thickness:

- 50 mil wet (1.25 mm) as primer
- 125 - 250 mils dry (3 – 6 mm) with build coats depending on need to control different ranges of heat. Build up to meet need.

Dry times:

- 10 minutes as primer over hot surface, then increase thickness as needed.
- 24 hours to set

Precautions:

- Do not use for exterior applications unless top coated with Rust Grip[®] or Enamo Grip for long term durability

Limitations:

- Do not use for underwater applications.
- HSC[®] Coating is white in color and rough in texture
- Not recommended as the only fire protection material to be used in residential or industrial construction
- Do not use as floor coating
- Not UV protected. For external use overcoat with Super Therm[®]



Heat Exchanger Las Vegas, Nevada





La Défense Office Tower Paris, France





Storage Tanks Los Angeles, California





LBC Tank Terminal Port of Antwerp, Belgium





**SUPERIOR PRODUCTS
INTERNATIONAL II INC
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Residential Home Las Vegas, Nevada

