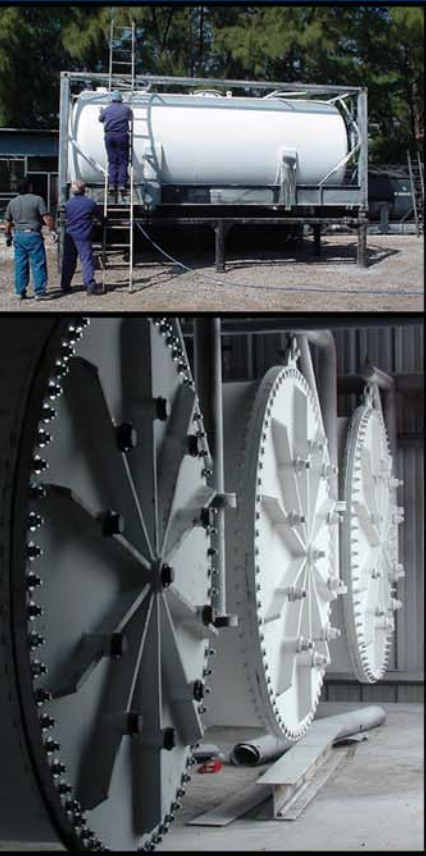


# Delta T Industrial<sup>2</sup> Insulating Coating



www.Mascoat.com



## USES

- Personnel Protection
- Areas prone to CUI
- Tanks
- HVAC
- Boilers
- Pressure Valves
- Piping
- Heat Exchangers
- Processors
- Bag Filters
- Vats and Liquor tanks
- Steam lines

And more...

## Benefits of Delta T Industrial<sup>2</sup>

- Provides non-combustible, thermal insulation.
- Adheres to any material and eliminates the potential for surface corrosion.
- Designed for industrial applications to prevent corrosion under insulation and to protect personnel.
- Increases efficiency and saves energy.
- Provides 99% UV protection and a vapor barrier system in one application.
- Rapid application procedure reduces man-hours necessary for installation compared to conventional materials.
- Significantly reduces or eliminates the possibility of condensation.
- Class A fire rating.

## A Spray-Applied Thermal Insulating Coating for All Purposes

Delta T Industrial<sup>2</sup> is a composite ceramic insulation coating system that provides an insulating barrier, protects personnel, and blocks corrosion all in one application. Delta T Industrial<sup>2</sup> is specifically designed to be a multiple purpose coating, which solves painting and insulating problems. This product is appropriate for temperatures under 500°F (260°C) on all types of substrates. The coating applies like paint yet provides dramatic temperature differentials for its thickness. Delta T is comprised of a microscopic match-formulated matrix of air-encapsulated ceramic particles held in suspension by a high-grade acrylic binder. The product is VOC-friendly, non-toxic, and non-combustible. Delta T Industrial<sup>2</sup> has proven itself in a variety of unforgiving



atmospheres. The product has been tested to ASTM standards and exceeds most criteria for weather-ability, adhesion, flexibility, and UV resistance. Its insulating factor is dependent on the composition bead structure and will perform well throughout the years. Delta T Industrial<sup>2</sup> can be applied in layers to increase its overall performance. Best of all, once the coating is applied, you have viewability of the substrate at all times. This allows for easy maintenance without total shut-down, breakdown, and down time. The coating has been used on hundreds of applications world-wide. Delta T is one of the only coatings on the market today that can be effectively forecasted and is supported by engineered technical data. Delta T Industrial<sup>2</sup> cost-effectively solves a variety of corrosion problems and provides personnel protection while saving you time.

### Personnel Protection Chart

Temperature	Coating Thickness	Coats
90–120 F	20 mils (0.5mm)	1
121–160 F	40 mils (1.0mm)	2
161–200 F	60 mils (1.5mm)	3
201–240 F	80 mils (2.0mm)	4
241–280 F	100 mils (2.5mm)	5
281–320 F	120 mils (3.0mm)	6

Mascoat provides a level of service and technical assistance to its customers that is beyond compare.



# Delta T Industrial<sup>2</sup>

## Thermal Insulating Coating

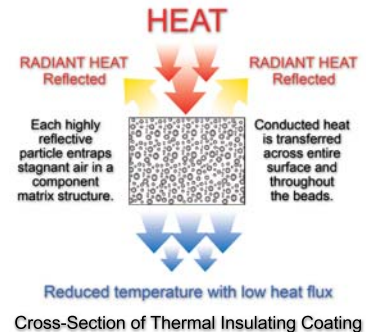
### Technical Data

All data is to ASTM standards when applicable

Container size:	5 gallon (20 liters)
Components:	One part (inclusive)
Coat thickness:	20 mils (0.5 mm) dry
Coverage:	50–60 ft <sup>2</sup> /gal at 20 mils (1.4 m <sup>2</sup> /liter at 0.5 mm)
Weight:	5.0 lbs/gal (0.61 kg/liter)
Volume solids:	78 - 80%
Color:	White, lt. grey, med. grey, drk. grey, tan
Sheen:	Flat
Base:	High-grade acrylic Water-based
Solvents:	Water
Chlorides:	Low to none
VOC content:	0.0 lbs/gal
Elongation:	Mandrell blend of 180° at 1/8"
Permeability:	Extremely low
Accelerated aging:	Excellent (2,100+ hrs)
Abrasion resistance:	Moderate to High
RvE:	9–13
Conductivity:	0.0131W/m/°K @ 1.0mm* 0.091 Btu-in/ft <sup>2</sup> -°F-hr* Please see description.
Emissivity:	0.15
Reflectivity:	0.85
Transmittance:	0.0
Absorptance:	0.15
UV reflection:	99.9%
Flame spread:	5
Smoke developed:	5
Fire rating:	Class A
Application temperatures:	50-300+° F (10-148°C)
Operation temperatures:	-60°F to peak 500°F (-51° C to 260° C)
Over coating:	Please call
Tinting:	Standard acrylic tints
App.method:	Airless sprayer
Tip size (spraying):	Reversible 317-521

Sold by:

**How does the coating work?** Delta T Industrial<sup>2</sup> applies the common physics principles of reflectivity, conduction and emissivity, and absorptance. Its microscopic particle structure (which resembles popcorn-like particles) reflects upwards of 85% of the radiant heat gain back into the environment in which it originated. Each ceramic particle encapsulates air, thereby offering a slow path of thermal transfer. This high content of entrapped and stagnant air very efficiently blocks thermal transfer. In addition, the coating's low emissivity allows for low heat flux. The combination of these factors allows for total thermal dissipation across the surface. The unique composition of the coating makes it extremely efficient for its thickness and prevents substrates from gaining heat, making surfaces cooler to the touch.



**Surface Preparation:** The minimum requirement for carbon steel substrates is a solvent wipe in accordance with SSPC SP 1 followed by power tool cleaning in accordance with SSPC SP 3. Abrasive blasting in accordance with SSPC SP 6 is preferred for longer service life. Surface must be free of all contaminants, both visible and non-visible, prior to coating.

**Primers:** Primers are recommended for carbon steel substrates. Consult Mascoat for the appropriate type of primer for a given environment. Delta T is self priming over non-ferrous materials such as stainless steel and aluminum.

**Airless Sprayer:** An airless sprayer is the best applicator. Sprayer should have capacity of at least 1 gallon per minute with 3,000 PSI. We highly recommend a tip size of .017 (for tight spots) and .019–.023 (for normal use) along with a reversible nozzle. Remove all strainers and filters from gun and sprayer. Failure to do so will result in filtering of insulation particles. Please consult website or detailed instruction sheet for list of sprayers and application instructions prior to application of Delta T Industrial<sup>2</sup>. An SA gun can also be used for areas under 100 ft<sup>2</sup>. (Call Mascoat for details.) All sprayer requirements can also be accessed at our website along with detailed instructions.

**Brushing:** Brushing is recommended for small areas or for use as a touchup. Apply first coat thinly. Successive coats will cover surface and build more rapidly. Make sure to allow coating to become dry to touch before starting next application.

**Rolling:** Not recommended.

**Thinning:** Thinning may not exceed one quart per five-gallon pail for high-temperature applications. Latex conditioners or water is standard thinning medium.

**Mixing:** Only mud mixing paddles should be used. Use 1/2 inch drill motor to stir. Make sure drill is set to reverse setting to insure that the paddle will not mar the bucket's inner wall.

**Cleaning:** Equipment may be cleaned with soap and water.

**Warranty:** Five -year specific limited warranty.

\*All tests were performed to ASTM procedures when applicable. RVE testing performed at independent lab and based on R value equivalency comparison – not ASTM certified. Findings may be different due to applications techniques and environmental conditions. Thermal conductivity is based on equivalency testing.