



## THERMAL INSULATING COATING

SPRAY-APPLIED SOLUTION FOR TRANSPORTATION MANUFACTURERS



As a spray-on insulating coating for trucks, trains and other large vehicles, Mascoat Transportation-DTA is the ideal way to limit thermal transfer. Unlike more complex insulation options that are pieced together and glued on, the coating is a one-part, spray-applied system with no pot life. Easily applied to irregular surfaces and tight spaces, its water-based formula contains a mix of durable acrylic binders and air-filled insulating/reflective capsules that cure quickly and insulate effectively.

The coating adheres to most any substrate in the transportation industry and is extremely lightweight. It keeps temperatures in cabs and cargo areas stable and more comfortable at minimum thickness

(0.5–2.0 mm). Mascoat Transportation-DTA is an ideal insulator for buses, RVs, ATVs, military transport, emergency, tractor-trailers and all other vehicles because of its spacesaving capabilities, insulating abilities, and long-term substrate protection.



Applied as a seamless membrane in two or more layers, the coating is non-combustible, environmentally friendly and easily cleaned with soap and water. To discuss the additional benefits of Mascoat Transportation-DTA or inquire about pricing for your production facility or vehicle fleet, contact a Mascoat Insulation Specialist today.



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## **USES**

- Engine covers
- Undercarriages
- Roofs
- **Firewalls** 
  - Storage areas
- Generator housings

## BENEFITS

· Rapidly applied to irregular surfaces

Doors

Chassis

Floors

Hoods

more...

And much

- Environmentally-friendly
- Passes FMVSS 302
- Saves installation time and waste compared to cut-and-paste systems
- Durable enough to go on roofs and underbodies
- Prevents corrosion and rust
- Lightweight
- Eliminates stocking of multiple insulation parts
- Withstands temperatures up to 350°F (176°C)
- · Helps reduce vibrations and noise
- Seals and protects surfaces





#### How does the coating work?

Mascoat Transportation-DTA is a one-part coating comprised of insulating particulates designed to reduce heat transfer through various substrates found in the transportation industry. Our relatively thin insulation coating can significantly reduce the effects of radiant heat gain, making cabin space more comfortable and protecting other heat-sensitive areas. Due to its acrylic composition, the coating maintains excellent flexibility to expand, contract, and vibrate with the surface ensuring a long lifespan. Additionally, Mascoat Transportation-DTA is a fire retardant coating that has been tested to specific transportation industry standards.



#### **APPLICATION INSTRUCTIONS**

**Surface Preparation:** The minimum requirements for carbon steel substrates is a solvent wipe in accordance with SSPC SP1 followed by power tool cleaning in accordance with SSPC SP3. Abrasive blasting in accordance with SSPC SP6 is preferred for longer service life. Surface must be free of all contaminants, both visible and non-visible, prior to application of the coating.

**Primers:** Primers are recommended for carbon steel substrates. Please consult Mascoat prior to application for the appropriate type of primer for a given environment. Mascoat Transportation-DTA is self-priming over non-ferrous materials such as stainless steel and aluminum.

Airless Sprayer: An airless sprayer is the best method for application of the coating. The sprayer should have a capacity of at least 1.5 gallon per minute at 3,000 PSI. Remove all strainers and filters from gun and sprayer before application. Failure to do so will result in the filtering of insulation particles. Please consult Mascoat for detailed instruction sheet, including list of sprayers, prior to application. A Small Application (SA) Kit can also be used for small applications under 100 square feet or touch ups. This specially-made kit can be obtained by contacting Mascoat. **Brushing and Rolling:** It is not recommended to brush or roll on Mascoat Industrial-DTI, as the insulating particles can be damaged and coating performance inhibited.

**Thinning:** Do not thin unless authorized in writing by Mascoat.

**Mixing:** Only mud mixing paddles, available from Mascoat, should be used to mix the contents of the pail. Use a 1/2 inch drill motor to stir. Make sure that drill is set to the reverse setting to ensure that the paddle will not mar the pail's inner wall and contaminate the coating.

**Cleaning:** All equipment can be cleaned with soap and water.

All data on this sheet was collected using ASTM procedures when applicable. Findings may be different due to application techniques and environmental conditions. Thermal conductivity is based on equivalency testing.

All information listed on this sheet is ©Mascoat.

#### **TECHNICAL DATA**

All data is to ASTM standards when applicable

CONTAINER SIZE:	5 Gallons
COMPONENTS:	One-part (inclusive)
COAT THICKNESS:	20 mils (0.5 mm) dry
COVERAGE PER GALLON:	50–55 ft <sup>2</sup> at 20 mils
(COVERAGE PER LITER):	(1.3 m <sup>2</sup> at 0.5 mm)
WEIGHT:	6.4–6.5 lbs/gallon
	(0.77 kg/liter)
VOLUME SOLIDS:	<b>78–80</b> %
SHEEN:	Flat
BASE:	High-grade acrylic water- based
CHLORIDES:	Low to none
VOC CONTENT:	0.06 lbs/gallon
	(7.6 grams/liter)
PERMEABILITY:	Low to none
SHORE A HARDNESS:	68 avg
PULL APART STRENGTH:	200 PSI
MANDREL BEND:	Pass 1/2"
FMVSS 302:	Pass
APPLICATION TEMPS:	60–300°F
	(10–148°C)
<b>OPERATION TEMPS:</b>	350°F maximum
	(176°C maximum)
TOPCOATING:	Please contact Mascoat.
<b>APPLICATION METHOD:</b>	Airless sprayer