

Mascoat[®] INDUSTRIAL-AC

AC

ANTI-CONDENSATION COATING

A SPRAY-APPLIED COATING TO REDUCE OR ELIMINATE CONDENSATION



Combining superior performance with easy application, Mascoat leads the industry in high-tech, premium insulation coatings. Mascoat's Industrial-AC (Anti-Condensation) formulation is specially engineered for aggressive industrial environments where it reduces condensation, protects substrates, blocks Corrosion Under Insulation (CUI) and improves equipment efficiency.

Utilizing materials specially designed to combat condensation, Mascoat's engineering team created Industrial-AC to solve the moisture problems that plague plants, refining mills, factories and anywhere else persistent condensation is an issue. While conventional insulation can retain moisture and breaks down when exposed to it regularly, Mascoat Industrial-AC withstands condensation, humidity and regular cleaning. Frequent insulation repair can be costly and time-consuming, but Industrial-AC's durable, moisture-resistant design requires little maintenance—so you'll save money and manpower.

Industrial-AC is installed via airless sprayer, making it easy to use on uneven surfaces and tight spaces. After application, substrates can be quickly inspected since they remain entirely viewable. And while Mascoat Industrial-AC is perfect for protecting equipment, storage vessels, pipelines, ducts and tanks from moisture damage, it's also designed to improve personnel safety by reducing moisture that can cause slip-and-fall accidents.

To avoid the risks that come with facility condensation—like costly corrosion, workplace accidents and unhealthy biological growth—trust Industrial-AC. For more information about our entire product family, contact the Mascoat team today.



USES

Mascoat Industrial-AC is currently in use on substrates around the world to combat the undesired effects of condensation. Typical applications include:

- HVAC systems
- Tanks
- Pipes
- Refrigerated storage
- Chillers

BENEFITS

- Provides anti-sweat protection
- Adheres to any material and eliminates the potential for surface corrosion
- Prevents Corrosion Under Insulation
- Vapor retardant
- Rapid application procedure reduces man-hours necessary for installation compared to conventional insulation
- Lightweight
- Class A Fire Rating
- Protects personnel by reducing the chance of slip-and-fall accidents created by frequent condensation formation
- Excellent UV protection



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How does the coating work? Condensation is formed due to the temperature differentials found between a substrate and the air surrounding the substrate. As the temperature of a surface reaches approximately 1.5°F from the dew point temperature, the air (gas) nearest the surface becomes laden with water weight and it changes from a gas to a liquid state. This liquid state forms into water droplets and appears on the substrate. Condensation development can be more severe in high humidity areas where there is more latent water vapor. This presents faster formation of condensation (sweat). To control condensation, it is important to be above 1.5°F of the dew point at a specific temperature.

To combat or control condensation, Mascoat Industrial-AC is designed to form a barrier between the dew point and the surface. Our formulation uses air encapsulating particulates that are specifically designed to help limit the interface between the surface and the surrounding dew point, thereby reducing or eliminating possible condensation development.

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 Industrial-AC 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: Except for small touch-ups, it is not recommended to brush or roll on Mascoat Industrial-AC, 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 (18.92 liters)
COMPONENTS:	One-part (inclusive)
COAT THICKNESS:	20 mils (0.5 mm) dry
COVERAGE PER GALLON:	50–55 ft ² at 20 mils
(COVERAGE PER LITER):	(1.3 m ² at 0.5 mm)
WEIGHT:	5.10 lbs/gallon (0.61 kg/liter)
VOLUME SOLIDS:	80–82%
SHEEN:	Flat
BASE:	High-grade acrylic water-based
CHLORIDES:	Low to none
VOC CONTENT:	0.06 lbs/gallon (7.1 grams/liter)
ELONGATION:	Above 30%
PERMEABILITY:	2.36 Perms
ACCELERATED AGING:	Excellent (2,000+ hours)
ABRASION RESISTANCE:	Moderate to high
THERMAL EMITTANCE:	0.85
SOLAR REFLECTIVITY:	0.82
TRANSMITTANCE:	0.0
EMMISSIVITY:	0.85
ABSORPTANCE:	0.18
FLAME SPREAD:	Class A
SMOKE DEVELOPED:	Class A
FIRE RATING:	Class A
APPLICATION TEMPS:	60–160°F (15–71 °C)
OPERATION TEMPS:	200°F maximum (93 °C maximum)
TOPCOATING:	Please contact Mascoat.
APPLICATION METHOD:	Airless sprayer