



# THERMAL INSULATING COATING

A SPRAY-APPLIED THERMAL INSULATING COATING FOR ALL PURPOSES



Formulated from an advanced system of air-encapsulated ceramic particles suspended in an acrylic binder, Mascoat's WeatherBloc-IC offers premium protection for substrates requiring thermal insulation. Because of its ability to reduce thermal transfer and stabilize building, office or warehouse temperatures, WeatherBloc-IC also helps to lowers utility bills and improve year-round interior comfort.

WeatherBloc-IC is water-based, easy to apply and extremely low in VOCs, so it's safe and environmentally friendly. In addition to its superior insulating characteristics, the coating safeguards exterior substrates from wind, sun and UV rays.. That means less maintenance for your commercial structure, industrial facility or converted storage container, which saves you time and money.

#### Whether used to insulate new construction



or a retrofitted structure, Mascoat WeatherBloc-IC is an affordable, convenient way to protect siding, crawlspaces, masonry and roofing materials. A fraction of the thickness of conventional insulation, WeatherBloc-IC replaces or enhances problematic fiberglass-type insulation, while providing exceptional durability—with few maintenance requirements.

Mascoat WeatherBloc-IC has been tested in a number of unforgiving environments, and has continually exceeded ASTM standards for weatherability, adhesion, flexibility and UV resistance. For more information about our company's commercial products, contact our insulation specialists today.

## USES

WeatherBloc-IC is currently in use around the world to combat heat transfer and protect substrates. Typical applications include:

- Rooftops
  - Walls
- InteriorsExteriors

And much

more...

- E
- HVAC systems
- Doors
- Windows

# **BENEFITS**

- Reflects and refracts heat transfer efficiently
- · Gives sealant quality to rooftops
- Protects substrates
- · Extremely low permeability
- · Non-toxic and lightweight
- Class A Fire Rating
- Quick and easy application
- · Provides substrate protection





This product is accepted for LEED Certification Points

is ED Ints CERTIFIE GREEN

www.mascoat.com

Headquarters · 4310 Campbell Road · Houston, TX 77041 · 713.465.0304 office · 713.465.0302 fax Europe Office · Van Hilstsraat 4 · NL-5145 RL Waalwijk · The Netherlands · +31 416 71 21 41 office · +31 87 784 95 68 fax How does the coating work? Mascoat WeatherBloc-IC thermally protects all year round, unlike reflective rooftop coatings,



which only work during the hot summer months. The coating applies the common physics principles of reflectivity, conduction, emissivity and absorpstance. Its microscopic particle structure, which resembles popcorn-like particles, reflects upwards of 85% of the radiant heat gain back to the environment from which it originated. Each ceramic particle encapsulates air, thereby offering a slow path of thermal transfer. This high content of entrapped and stagnant air blocks thermal transfer very efficiently. 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 of the coating. The unique composition of the coating makes it extremely efficient for its thickness and prevents substrates from gaining heat.



### **APPLICATION INSTRUCTIONS**

Surface Preparation: All substrates should be cleaned prior to application of product. Most substrates need a simple pressure wash. Fastening points need to be examined and tightened or replaced. Voids and fastening points should be dressed with an elastomeric compound prior to application. Make sure that the elastomeric compound is fully cured prior to application of the coating.

average between 10 and 50%.

Primers: On clean surfaces, primers are not needed except on carbon steel.

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 WeatherBloc-IC, as the insulating particles can be damaged and coating performance inhibited.

**Thinning:** Thinning is not recommended for this product.

Mixing: Only mud mixing paddles, available from Mascoat, should be used to mix the contents of the pail. Use a 1/2inch 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.

Warranty: Ten-year specific limited warranty if product is applied by a Mascoat Certified Applicator. To find a certified applicator in your area, please contact your Mascoat representative.

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.

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### **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: | 47–52 ft <sup>2</sup> at 20 mils      |
|                      | (1.22 m <sup>2</sup> at 0.5 mm)       |
| WEIGHT:              | 6.4 lbs/gallon                        |
|                      | (0.74 kg/liter)                       |
| VOLUME SOLIDS:       |                                       |
| COLOR:               | White. Custom tinting<br>upon request |
| SHEEN:               | Flat                                  |
| BASE:                | Water-based acrylic                   |
| CHLORIDES:           | Low to none                           |
| VOC CONTENT:         | 0.05 lbs/gallon                       |
|                      | (5.9 grams/liter)                     |
| ELONGATION:          | Above 600%                            |
| ACCELERATED AGING:   | Excellent (2,000+ hours               |
| ABRASION RESISTANCE: | Moderate to high                      |
| THERMAL EMITTANCE:   | 0.86                                  |
| SOLAR REFLECTIVITY:  | 0.84                                  |
| TRANSMITTANCE:       | 0.0                                   |
| EMMISIVITY/          |                                       |
| ABSORPTANCE:         |                                       |
| UV REFLECTION:       | 10070                                 |
| FLAME SPREAD:        |                                       |
| SMOKE DEVELOPED:     |                                       |
| FIRE RATING:         |                                       |
| APPLICATION TEMPS:   |                                       |
|                      | (10-88°C)                             |
| OPERATION TEMPS:     |                                       |
|                      | (-4–93°C)                             |
|                      | Please contact Mascoat                |
| APPLICATION METHOD:  | Airless sprayer                       |
|                      |                                       |