

WeatherBloc™

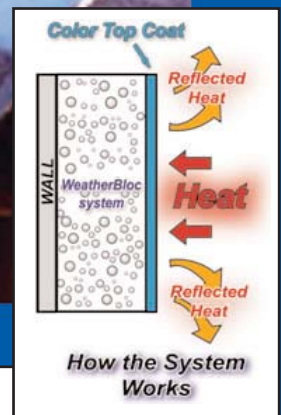
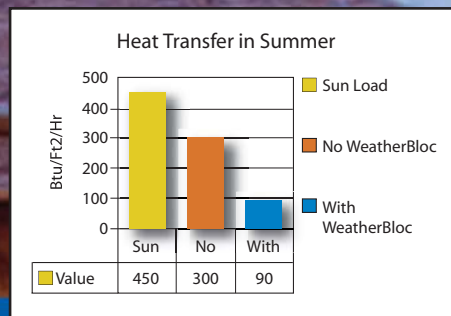
Thermal Insulating Coating



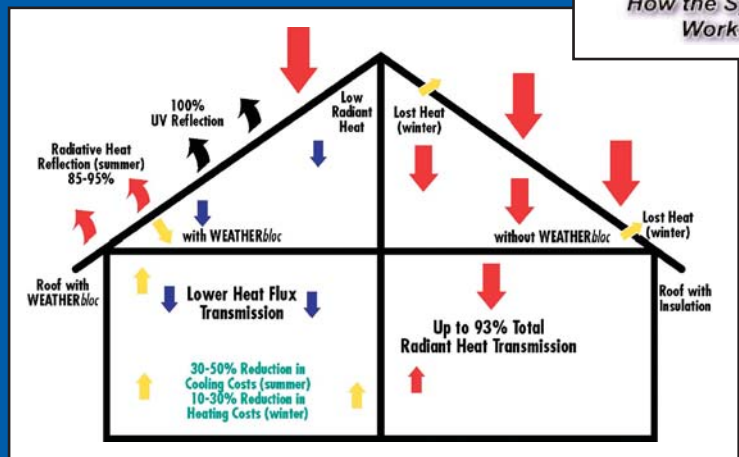
A Thermal Insulating Coating material specially designed for rooftops, warehouses, barns, storage areas, mobile homes, portable buildings, residential homes, trailers, containers, coolers, walls, and sheds.



- Reflects and Refracts heat or cold transfer efficiently.
- Gives sealant quality to rooftop.
- Protects roof from UV transmission.
- Reduces expansion/contraction or thermal shock.
- Provides excellent moisture/vapor barrier.
- Nontoxic and Lightweight
- Nonflammable



WeatherBloc™ coating is one-part water based acrylic comprised of air-encapsulated, insulating particles which produce thermal insulating like qualities. It is typically applied to the outside/inner surfaces of most roofs, walls and other surfaces in a spray/roll application format. Drying to 20 mils (0.020" or 0.5 mm), the coating uses its highly reflective insulating particles to dissipate heat or cold before entering the internal atmosphere. This coating uses the most advanced resin system for outstanding durability, flexibility and insulating abilities. Thus, this reduced thermal transfer allows your office, warehouse, or home to become more energy efficient, reducing your heating/cooling costs and keeping you more comfortable. The coating also provides additional benefits such as excellent protection from the elements, no moisture intrusion, and reflection of Ultra-Violet rays.



The graphics above depict heat and cold transmission in a typical rooftop scenario. By using WeatherBloc, up to 85% of the summer radiant heat load is reflected by the insulating particles. Winter conditions can yield a 10-30% savings due to reflecting the heated air back into the internal environment. Thus, energy savings can average 10-50% depending on geographic area and conditions. Why keep wasting energy? Apply WeatherBloc Insulating Coating™ today and start keeping your environment more comfortable and energy-efficient.

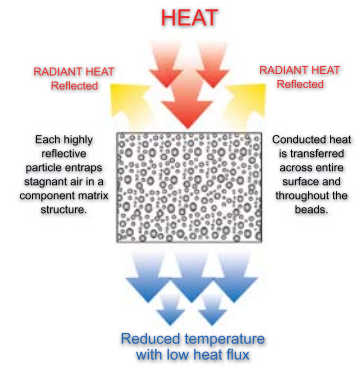
WeatherBloc Insulating Coating

Technical Data

All data is to ASTM standards when applicable.

Container size:	5 gallon, (20 liters)
Components:	One part
Coat thickness:	0.020" (0.5 mm)
Coverage:	50-60 ft ² /gal at 20 mils (1.4 m ² /liter at 0.5 mm)
Weight:	6.2 lbs/gal (0.73 kg/liter)
Volume solids:	75%
Color:	Bright White
Sheen:	Flat
Base:	Acrylic
Elongation:	632%
Permeability:	Low (one way)
Accelerated aging:	Excellent (2000 hrs)
Abrasion resistance:	Mod-High
Cross hatch adhesion:	100%, 5A (excellent)
Pull-off-Strength:	360 + psi
RvE:	9-11, Reflective (R20)
Emissivity:	0.15
Reflectivity:	80%
Conductivity:	0.098 W/m/K 0.67 Btu-in/ft ² -F-hr
UV Reflection:	100%
Flame Spread:	5
Smoke Developed:	5
Fire Rating:	Class A
Application Temps:	33F to 190F (0 to 88C)
Operation temps:	-40F to 200F (-4 to 93C)
VOC content:	None
Tinting:	Standards acrylic tints
App. Method:	Airless sprayer
Tip Size (spraying):	Reversible 521
Product acceptance:	Underwriters Labs Energy Star®

How does the coating work? WeatherBloc Thermal Insulating Coating 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.



Cross Section of Thermal Insulating Coating

Recommended uses: ROOFTOPS, WAREHOUSES, BARNs, STORAGE AREAS, MOBILE HOMES, PORTABLE BUILDINGS, RESIDENTIAL HOMES, TRAILERS, CONTAINERS, COOLERS, WALLS, AND SHEDS.

Surface Preparation: All substrates should be cleaned prior to application of product. Most roofs simply need a pressure wash. Fastening points need to be examined and tightened or replaced. Voids and fastening points should be dressed with elastomeric compound prior to application of WeatherBloc. Make sure that elastomeric compound is dry prior to application of coating system.

Primers: On clean surfaces, primers are not ordinarily needed but can be used. It is best to use the type of primer made for the particular substrate.

Brushing: Brushing is only recommended for small areas or for use as a touchup. A smooth textured wet (water) brush is recommended. Apply first coat thinly. Successive coats will cover surface and build more rapidly.

Airless Sprayer: *An airless sprayer is the best applicator.* Sprayer should have capacity of at least 1 gallon per minute with 3000 psi. Tip size of 319 inches (for tight spots) and 521-523 (for normal use) along with a reversible nozzle is highly recommended. Remove all strainers and filters from gun and sprayer. Failure to do so will result in filtering of insulation particles.

Rolling: If WeatherBloc is poured onto a surface, a wet, low mat, squeegee, or PVC roller may be used to spread in areas.

Thinning: Thinning is not recommended for this product.

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 inner wall. Cleaning of equipment may be accomplished with soap and water.

MSDS: Sheets will be provided with purchase of product or on request.

Warranty: 10 year limited warranty.

*When installed properly, this product will help reduce energy costs. Actual savings will vary based on geographic location and individual building characteristics. Consult Mascoat Products, your roofing contractor, or call 1-888-STAR-YES for more information. All energy savings data is based on averages of actual applications. All tests were performed to ASTM procedures when applicable. RVE testing approved at independent lab and based on R value equivalency comparison - not ASTM certified. All information contained is ©Mascoat Products 2004

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