

BITEC® MAC-300 is a premium quality, high solids content, fibered, asphalt-based aluminum roof coating that reduces roof degradation and increases the useful lifespan of the roof. When installed according to specifications and installation guidelines, MAC-300 provides a bright finish with excellent coverage and UV protection.

FEATURES & BENEFITS

BITEC MAC-300 also provides the following features and benefits:

- Meets or exceeds ASTM D 2824, Type III, Standard Specification for Aluminum-Pigmented Asphalt Roof Coatings, Nonfibered, and Fibered without Asbestos
- Formulated using select oils, asphalts, and resins
- Preserves and beautifies while providing a reflective shield over both old and new roofs
- Reflective roof coating reduces roof degradation due to UV and increases the useful lifespan of the roof
- Only the highest quality and more per gallon of aluminum flake is used in MAC-300, compared to competitive brands, providing unequaled reflectivity that lasts for years
- Two coats forms a long lasting and sustainable shield
- One gallon of MAC-300 coats the same area as 3-4 gallons of standard fibered aluminum roof coating

PACKAGING

Package: 5-gal pails

Quantity per pallet: 36

Pallets per truckload (typical): 18

APPLICATION

The surface to be coated must be clean, dry, and sound, as well as free of dirt, moisture, oils, algae, or other contaminants that may interfere with proper adhesion. Carefully remove any loose material from the surface with a wire brush or scraper. Grease and oil should also be removed with environmentally safe solvents or an appropriate cleaner. In most cases, a high-pressure water blast will be sufficient to prepare the surface. With all coatings and adhesives, proper preparation is key to yielding optimal results. BITEC always recommends adhesion testing prior to starting, especially with previously coated substrates.

Product application should be suspended immediately and our technical service personnel contacted if the results being obtained are less than desirable.

Roof surfaces that are old and dry shall be prepared using an asphalt primer at the rate of 1 gal / 100 ft². Repair any splits, cracks, or surface irregularities with BITEC PMA-2000 and

fiberglass mesh, where applicable. It is highly recommended that this product be installed by a knowledgeable and experienced roofing contractor.

Prior to application, MAC-300 should be mixed thoroughly until the coating appears consistent. It is recommended to apply 2 coats of MAC-300, ensuring the second coat is applied perpendicular to the first.

For smooth or mineral surfaced modified bitumen or asphaltic roofs, the approximate coverage rate is 0.5-0.75 gal / 100 ft² (per coat).

For metal roofing, the approximate coverage rate is 0.2-0.25 gal / 100 ft² (per coat).

For APP smooth membranes, asphalt emulsion, bitumen mastic, and adhesives, allow 30-45 days cure time before applying MAC-300. Allow 90 days cure time before applying MAC-300 over cold adhesive applied bituminous roofing systems.

Please refer to the BITEC Roofing Products Installer's Guide for detailed application guidelines.

As with any roofing project, good roofing practices should always be followed.

STORAGE & HANDLING

Store materials locked up and in a well-ventilated, dry, and temperature conditioned location. Keep containers tightly closed to avoid contamination.

PRECAUTIONS

Do not apply MAC-300 when outside temperatures are below 50°F (10°C). Do not apply if rain, dew, or temperatures below 50°F (10°C) are forecast 24 hours prior to scheduled application. Do not overwork MAC-300 during application; this may lead to an undesirable darkening or bronzing of the coating.

Safety first! The roofing contractor and employees are the key to success regarding safety. Safety should always be first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit www.bitec.com.

Technical Schedule		
Non-Volatile	60% minimum	ASTM D2824
Density at 77°F (25°C)	8.7 lbs/gal (1.02 g/cm ³)	ASTM D1475
Typical Drying Time at 50% R.H., 77°F (25°C)	Overnight	
Flash Point	Minimum 103°F (39°C)	ASTM D-93
Service Temperature Extended exposure	-20°F - 180°F -29°C - 82°C	
Resistance to Sunlight	Excellent	
Effects of Weathering	Slow erosion	
Wet Film Thickness @ 1-gal (3.8 L)	32 mils (812.8 microns)	
VOC	480 g/L	
Reflectance (Initial)	0.61	
Reflectance (3-year aged)	0.55	
Emittance (Initial)	0.44	
Emittance (3-year aged)	0.44	
SRI (Initial)	0.77	
SRI (3-year aged)	0.60	
Coverage (Smooth or mineral)	0.5-0.75 gal/100 ft ² (per coat) 0.20-0.30 L/m ² (per coat)	
Coverage (Metal)	0.20-0.25 gal/100 ft ² (per coat) 0.08-0.10 L/m ² (per coat)	

All information is given in good faith but normal tolerances of manufacture and testing will apply. BITEC reserves the right to improve and change its products at any time without prior notice or advice. The use of BITEC products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, BITEC cannot be held responsible for the improper application of its products and for conditions beyond its control. All claims filed against BITEC warranties will be subject to the provisions set forth at the date of the warranty issuance, and any addendum thereto. Under no circumstances will BITEC be held liable for any damage, whether personal injury or property damage, which occur during or after the application of any BITEC products.

BITEC, Inc.
PO Box 497
#2 Industrial Park Dr
Morrilton, AR 72110
Phone: (800) 535-8597
Fax: (501) 354-3019
www.bitec.com

