

APPLICATION INSTRUCTIONS FOR MASCOAT WEATHERBLOC-IC

Mascoat WeatherBloc-IC must be mixed and applied properly to achieve all of its insulating qualities. If directions are not followed, product will not achieve full insulating benefits. Failure to follow directions will void all warranties. We recommend that WeatherBloc-IC be spray applied. Below contains information about required equipment, surface preparation, application instructions and tips and techniques for applying WeatherBloc-IC.

**This coating is NOT TO BE APPLIED DIRECTLY ON TOP OF
COMPOSITION SHINGLES.**

Surface Preparation for Metal Applications

Galvanized Steel, Stainless and Aluminum Substrates

WeatherBloc-IC can be applied directly to galvanized, stainless and aluminum metal. No additional primer system is needed. Substrate needs only to be cleaned with either of the two recommended cleaning methods:

1. If surface is new galvanized metal, a light vinegar wash is required prior to application of WeatherBloc-IC Coating. This wash is to ensure that all oils and protective compounds are removed from the surface.
2. If the surface is older galvanized metal and somewhat dirty, a light pressure wash is recommended prior to application of WeatherBloc-IC. Make sure that all degraded substrates are either repaired or replaced prior to the application of the coating.

Preparation for Bare Steel Substrates

1. We recommend a primer system. To date we have not found that one primer is better than others. All inorganic or organic zincs work well on steel and have excellent corrosion properties. Epoxy systems work well also. If the substrate is coated with pre-construction primer, this will suffice as a primer.
2. Spray the primer system on all areas of the steel. Follow the directions for surface preparation for the primer.
3. Make sure that all areas of the steel including welds and touch up areas have been coated with the primer. Wait 24 hours to make sure primer is cured.

4. WeatherBloc-IC can be sprayed directly on top of the primer without any other prep. If there is a large delay between coating primer and WeatherBloc-IC application, make sure that the area is clean and free of any foreign matter. This can be accomplished by wiping the surface down with a rag or air sweep.

Preparation for Aluminum Substrates

1. WeatherBloc-IC can be directly on top of aluminum and stainless substrates without any primer. Since the coating contains no chlorides, it has no problem with these substrates.
2. If the substrate is fairly new, we recommend a light vinegar wash prior to application of WeatherBloc-IC. This can be accomplished by simply wiping down the substrate with a light mixture of household white vinegar and water.

It is extremely important to make sure that after cleaning; the substrate is completely dry before applying WeatherBloc-IC. Since the coating is water based, all water must be evaporated from substrate for good adhesion properties.

Other Surface Preparation

Rust or Corroded Substrates: It is possible that you may need to fix areas of the roof prior to application of our WeatherBloc-IC. It is recommended to fix rusty areas with either replacement substrate, or clean and neutralize with a product such as OSPHO rust neutralizer. (It can be found at most hardware and home improvement stores.)

Fasteners and Bolts: It is recommended to make sure that all fastening points are tight and in good working order prior to application of the coating. This will ensure that a tight seal is in place. Over time this bolts have tendency to loosen due to expansion and contraction of the roof. Therefore careful attention is needed to ensure that all penetration points of hardware are tight and secure.

Elastomeric Compound: It might be necessary to use a waterproofing material such as an elastomeric roof compound prior to the application of the WeatherBloc-IC. This material is in liquid form and is available at most home improvement stores in the roof section. Apply this material on areas such as voids, fastening points, penetration areas, flashing, seams, etc as described by application instructions. It can be applied by brush or sprayer, or trowel. Use the method recommended by the manufacturer.

This material is usually somewhat slow drying so it is recommended to let dry at least 12-24 hours. It usually will have the appearance of a tacky or sticky consistency but it is dry. Use this compound also on areas that have been rusted and need a filling agent. This elastomeric compound must be applied prior to application of the WeatherBloc-IC coating. It is an excellent way to ensure that a good waterproofing function over the years to come. Once all areas have been applied with the compound and are clean, the surface is ready for application of the coating.

Parking Lots: Make sure that if applying by spray method that any areas not to be sprayed are considered. WeatherBloc-IC is a high solid formulation and the particles are much larger than conventional paint. This means that areas within 4 ft (1m) should not receive much overspray, or anything beyond that distance is considered dry fall. Best application practices will make sure that cars, or other valuable items are either on the windward side of the application or removed from questionable areas. Mascoat does not take any responsibility for overspray with its products.

Spray Application Instructions

Equipment Needed for Spray Application

- Airless spray system – min. 1.0 gallon per minute at 3000 psi. Recommended sprayer Graco NXT Xtreme or equivalent. Please see our website for a detailed list of acceptable sprayers. Make sure equipment is in acceptable condition prior to spraying. If seals or old or worn, replace prior to spraying WeatherBloc-IC
- 3/8" Spray Hose line
- Reversible nozzle with tip size .017" - .025". Fan size depends on area to be sprayed
- **Graco CONTRACTOR GUN** with 3/8" hose swivel
- **REMOVE filters in gun and sprayer**
- Respirator or dust mask, paint suit or similar clothing
- 1/2" drill with reverse setting.
- 1/2" sheet rock mud mixing paddle
- Hopper or other 5 gallon pail
- Access to water
- Pressure washer (if substrate is not clean)

If equipment is not readily available, please contact Mascoat. We stock many of the items that are designed for Mascoat WeatherBloc-IC application. Mascoat also manufactures a Small Application Sprayer (SA Gun) specifically designed for

areas under 100 ft² (10 m²). This sprayer can be used with conventional air hose (3/8").

Directions for Spray application of Mascoat WeatherBloc-IC

1. Upon receiving WeatherBloc-IC, please inspect physical appearance of container. Make sure that product is free of any punctures or tears. If punctures exist, please contact shipper or Mascoat.
2. Open container with pail opener or other means.
3. If the product requires stirring, insert Mud mixing paddle into coating. Push paddle to bottom of container. Be careful not to splatter contents out of pail.
4. Place feet on sides of pail to hold pail from spinning. **Slowly** turn drill motor on **reverse setting**. Reverse setting will ensure that the paddle will not scrape the sides of the pail and contaminate contents. Stir product until it resembles a milkshake like consistency (20-40 seconds). Over mixing may destroy particles, thereby reducing the performance value. Product should be free from any large particles.
5. **Do not add water.** Adding water will also reduce the performance value.
6. Remove all filters from gun and sprayer. This is very important to make sure that insulation is not filtered.
7. Flush all solvents from sprayer with water (10-15 gallons.) Prime sprayer using water only with either gun removed from line or with orifice nozzle out of the spray gun. WeatherBloc-IC requires peak performance of the seals in the pump unit. If seals are weakened or have developed small cracks, proper pressure is hard to achieve.
8. Place pickup nozzle in product pail or hopper and prime product through the sprayer. Prime without tip/tip guard. When product consistency is thick, stop sprayer and attach tip/tip guard. Product is now ready for application to substrate.
9. Use sample area to adjust sprayer pressure. With most large pneumatic sprayers, air pressure of 80-100 PSI is adequate if CFM is consistent. If CFM is reduced more pressure will be needed.
10. Spray product onto substrate. **Remember that this is a coating, not paint.** It is very important to ensure an even coat across the substrate. Drying times will be extended with high humidity or if colder conditions exist. It is recommended to use heaters/forced ventilation or other means to heat surfaces if the temperature is close (10°F) of the minimum film formation temperature (38°F or 10°C). Coating may be applied in 20 mil layers per coat wet with no upper limitations on total coating thickness exist (dry). In colder conditions, application of heat and/or forced ventilation will be necessary to ensure even coat thickness and alleviating risk of slides. Lighter mil procedure should also be used to help the coating dry. Confined spaces will need forced

- ventilation in all applications to keep humidity levels from rising due to water evaporation.
11. Cleanup is simple. Wash sprayer and all tools with water. Coat thickness should not exceed 20 mils in any one application. In colder atmospheres, initial coating should be no greater than 5-8 mils on verticals. It is better to do two light coats on verticals than one heavy one.
 12. Let product dry between coats. **Do not exceed 20-25 mils in any one application.** Most surfaces should dry within one hour at moderate ambient temperatures.

Tips and Techniques

- Tape up all areas that are NOT to be covered.
- Make sure that the airless sprayer has a new seal kit. WeatherBloc-IC is harsh on seals since it contains semi-abrasive particles. Therefore, if you have used your sprayer with solvent-based systems, we recommend a fresh seal kit prior to use of our product. Use leather seals if possible.
- Make sure to purge airless sprayer with plenty of water and recirculate for some time prior to placing pickup nozzle into product. We recommend flushing system with at least 15-20 gallons of water prior to any application.
- Spray a light 5-10 mil coat initially so product and let tack dry if on Vertical substrates in conditions lower than 60°F. This will help to deter sliding of product due to excessive mils initially. This will also expedite dry times.
- There are no upper limitations on thickness of the product after drying. The more coating, the higher the performance. Minimum product thickness should not be less than 18 mils DFT.
- Spray more light coats rather than one heavy one.
- Spray areas that are hard to reach prior to bulk of application. Use ladders and scaffolding if needed.
- If product is applied onto an unintended surface, clean immediately via water and scrubbing.
- If product slides or blobs occur, smooth out with brush or let dry thoroughly prior to scraping.

- If spraying more than one coat, tinting can be used to differentiate coats. Standard acrylic tint can be used or consult Mascoat about color formulations.

Hopper System

A hopper system can be an effective tool when spraying large amounts of the coating. A 20-30 gallon container is perfect for mixing and containing the product. Place the pickup nozzle for the sprayer at one end of the container and periodically stir the hopper with the mud-mixing paddle. This system will allow the sprayer to have consistent product throughout the application.