



**Why Paint
And then
Insulate?**

The Industry Leaders in Insulation Coatings

WeatherBloc Insulating Coating™ 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 Insulating Coating be spray applied, but it can also be roll applied as well. Below contains information about equipment needed, surface prep, application instructions and tips and techniques for applying WeatherBloc.

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

Equipment needed for application:

- Airless spray system – min. 1.0 gallons per minute at 3000 psi.
Recommended sprayer Graco Bulldog or equivalent. Please see our website for a detailed list of acceptable sprayers. Make sure equipment is in tip-top condition prior to spraying. If seals or old or worn, replace prior to spraying WeatherBloc Coating.
- 3/8" Spray Hose line only!
- Reversible nozzle with tip size .021" - .031". Fan size depends on area to be sprayed.
- **Graco CONTRACTOR GUN** with 3/8" hose swivel. ***REMOVE filters in gun or pickup tube.***
- Respirator or dust mask, paint suit or similar clothing.
- 1/2" Drill motor with reverse setting.
- 1/2" Sheet rock mud mixing paddle (blade style)*.
- Pail opener and/or knife*
- Hopper or other 5 gallon pail
- Access to water
- Vinegar – Standard grocery store brand
- Soft rags or cloths for cleaning
- Pressure washer if substrate is not clean

** If equipment cannot be readily available, please call Mascoat Products. We have the items that are designed for WeatherBloc Coating application.*

Surface Preparation for metal applications

GALVANIZED STEEL SUBSTRATES

WeatherBloc Industrial Insulating Coating can be applied directly to galvanized metal. No additional primer system is needed. Substrate needs only to be cleaned with either of the two recommended cleaning methods:

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

PREPARATION FOR BARE STEEL SUBSTRATES

- We recommend a good 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.
- Spray the primer system on all areas of the steel. Follow the directions for surface preparation for the primer.
- 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.
- WeatherBloc Coating can be sprayed directly on top of the primer without any other prep. If there is a large delay between coating primer and WeatherBloc 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

- WeatherBloc Coating 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.
- If the substrate is fairly new, we recommend a light vinegar wash prior to application of WeatherBloc. 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 Coating. Since the coating is water

based, all water must be evaporated from substrate for good adhesion properties.

Other Needed PREP prior to application of WeatherBloc

RUST OR BAD SUBSTRATE AREAS

It is possible that you may need to fix areas of the roof prior to application of our WeatherBloc. 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.)

FASTNERS 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 insure 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 insure 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. This material is in liquid form (thick liquid) 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 recommend by 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 coating. It is an excellent way to insure 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, ETC.

Make sure that if applying by spray method that any areas not to be sprayed are considered. WeatherBloc is a very 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 Products does not take any responsibility for overspray with its products.

Directions for Spray Application of WeatherBloc Insulating Coating

1. Upon receiving WeatherBloc, 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 Products, Houston, TX. (713) 465-0304*.
2. Open container with pail opener or other means.
3. Product should be already premixed. However if the product has been in storage for some time, settling may have occurred. If the product requires stirring, insert Mud mixing paddle into coating. Push paddle to bottom of container, **SLOWLY**. 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**. **Stir on reverse setting only!** Reverse setting will insure that paddle will not scrape sides of pail and contaminate contents. Stir product until it resembles a milkshake like consistency (20-40 seconds). Over mixing will destroy particles, thereby reducing insulating capabilities. Product should be free from any large particles. **DO NOT ADD WATER TO PRODUCT!** Adding water will diminish insulating capabilities.
5. **Remove all filters from gun and sprayer.** This is very important to make sure that insulation is not filtered. **Flush all solvents from sprayer with water.** Prime sprayer using water only with either gun removed from line or with orifice nozzle out of the spray gun. **FLUSH 10-15 GALLONS OF FRESH WATER THROUGH SPRAYER TO INSURE REMOVAL OF ALL THINNERS OR FOREIGN DEBRIS.** It is highly recommended that the sprayer has been recently rebuilt on the pump end. WeatherBloc consistency 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.
6. Place pickup nozzle in product pail or hopper and prime product throughout sprayer. Prime without gun or orifice nozzle. When product consistency is thick like, stop sprayer and attach gun or orifice nozzle. This may take a moment, as the system will have to bleed until pressure is reduced. Place tip in reversible head, place reversible nozzle on gun and insert tip. (Tip size depends on area sprayed. Common tip size is 519" - 531"). Product is now ready for application to substrate.
7. 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.
8. Spray product onto substrate in a methodical fashion. **Remember that this is a coating, not paint.** It is very important to insure an even coat throughout 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 is 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 insure even coat thickness and alleviating risk of slides. Lighter milage procedure should also be used to help evacuate the water out of the coating at a faster rate. Confined spaces will need forced ventilation in all applications to keep humidity levels from rising due to water evaporation.

9. Cleanup is simple. Wash sprayer and all tools with water. Coat thickness should not exceed 20 mils in any one application. One pass with gun is normally a 5-mil application on flat substrate. In colder atmospheres, initial coating should be no greater than 5-8 mils on verticals. Let product tack up prior to recoat. It is better to do two light coats on verticals than one heavy one.
10. 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 (SPRAY)

- Tape up all areas that are NOT to be covered.
- Make sure that airless sprayer has a good fresh seal kit. WeatherBloc Coating is harsh on seals since it contains semi abrasive particles. This can scrub seals clean and trap any particles stuck on seals in the system. 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. Pull orifice nozzle out of gun or remove gun to bleed any trash or unwanted items.
- Prime sprayer with product by removing spray nozzle orifice to insure that all trash is removed from system. This is especially important if sprayer is used often and lines are not new.
- Spray a light 5-10 mil coat initially so product and let tack dry if on Vertical substrates in conditions lower than 60°F. Once product is tack dry, build up appropriate milage. This will help to deter sliding of product due to excessive milage initially. This will also expedite dry times.

- There are no upper limitations on thickness of the product. The more product, the more insulating power. Minimum product thickness should not be less than 18 mils DFT.
- Spray more light coats rather than one heavy one.
- Work smart and think out strategy prior to spraying. Spray areas that are hard to reach prior to bulk of application. Use ladders and scaffolding if needed.
- If product is found in unwarranted space or area, clean immediately via water and scrubbing method.
- 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 and found at most paint supply houses. A good method is to use a hopper system (see Hopper system). Mix one ounce of black (will tint the coating gray) tint per five-gallon pail. Pour the tint into the bucket after the coating has been mixed. Stir the tint into the coating briefly. Pour the coating through strainer into hopper system. Periodically mix the hopper with the paddle. By using this method, a consistent color will emerge. **DO NOT TINT THE FIRST COAT!** It is important to keep the first coat white, as it will help differentiate the substrate and the insulating coating.

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 paddle. This system will allow the sprayer to have consistent product throughout the application.