



Sprayer Equipment for: MEL-ROL® LM, AIR-SHIELD® LM, MEL-ROL® LM (ALL SEASON), AIR-SHIELD® LM (ALL SEASON), AIR-SHIELD® LMP, and MEADOW-PRUF™

Extensive field testing has shown that the **Graco GH 833 Big Rig** or **Hydra Max 350** (now obsolete) sprayers work best for spraying of the water-based AIR-SHIELD LM, AIR-SHIELD LMP, MEL-ROL LM and MEADOW-PRUF SEAMLESS products. (These sprayers also work well for the spraying of the solvent-based, ALL SEASON versions of these products.) We are not aware of any other types of sprayers being used successfully with our products. Initially, we had used the **Gmax 7900 Roof Rig**, but we have found that the pressures (4000 psi) attained by the **Graco GH 833 Big Rig** and **Hydra Max 350** units yield more consistent, trouble-free results. The **Graco GH 833 Big Rig** and **Hydra Max 350 units** are capable of a 3.5 – 4.0 gal./min. output, compared to a 2.1 gal./min. for the **Gmax 7900 Roof Rig**. The water-based emulsion products are extremely shear sensitive and should **NOT** be applied through gear-type pumps or pressurized follower plate systems. These systems will cause the emulsions to break, which will then clog the equipment. The ALL SEASON versions of the products are not shear sensitive and will remain stable when applied by most standard spray equipment.

The **Graco GH 833 Big Rig** unit comes equipped with 100' of hose, a texture spray gun, and several tips. NOTE: The standpipe on the sprayer **MUST** be opened and checked for the presence of a filter element and plastic sleeve. These **MUST BOTH** be removed prior to use, as they will cause clogging.

Both the **Graco GH 833 Big Rig** and **Hydra Max 350** can be used for five-gal. pails or 55-gal. drums. Extensions on the pumps are able to create enough suction to allow material to be pulled from the top of a standing drum (or tote) of product. (An option available for the **Graco GH 833 Big Rig** allows the pump to be placed directly over a drum for improved pumping of thicker materials in cooler weather.)

EQUIPMENT

- Hose - We have used up to 100' of hose with these products. (Longer lengths may work; possibly up to 150') The hose must be rated for use up to 4000 psi for these units.
- Spray Gun - The Graco heavy duty texture gun is required (part #241705). It does not contain a paint filter and works well for these products. Other Graco guns have not worked, as they contain a diverter pin in the spray nozzle that will constantly clog the gun.
- Spray Tips - We have used the 0.051" (Graco 551,651) tip successfully for spraying and this is our preferred tip size for the MEL-ROL LM/AIR-SHIELD LM products. For spraying of the AIR-SHIELD LMP, the 0.051" tip will work, but using the 0.035" or 0.037" tip will yield a smoother finish on the wall. For spraying of a solvent-based ALL SEASON product, we recommend using the 0.035" (Graco 535, 635) tip. NOTE: Tips should be the "reversible" type for easy clean out.

APPLICATION - PRIMER

Priming - Priming of poured concrete substrates is recommended to minimize the potential for blistering of the membrane after it is applied and when exposed to direct sunlight. Once applied, the primer coat should be allowed to dry and be allowed to "warm up" while exposed to direct sunlight. Allowing the primer to be exposed to direct sunlight prior to the membrane application will allow the surface to "warm up" (due to the black color) and help "de-gas" the surface. This "de-gassing" releases the air/moisture vapors in the pores of the substrate, allowing them to expand and dissipate prior to the membrane application. If the primer is not exposed to direct sunlight for a sufficient time interval prior to membrane application, then blistering of the membrane may occur.

Primer Dilution/
Application
Rate -

Dilute the water-based LM products 4-5 parts product to one part water. Apply at 100-150 ft.²/gal. and allow to dry approximately one hour. The solvent based ALL SEASON products do not need to be diluted and should also be applied at 100-150 ft.²/gal. AIR-SHIELD LMP typically does not require a prime coat.

APPLICATION - MEMBRANE

Spray - Several coats may be required to obtain the recommended thickness without excessive running or slumping of the wet membrane in hot weather. Allow the first coat to dry approximately one hour before application of the second coat.

NOTE: The MEL-ROL LM, AIR-SHIELD LM and MEADOW-PRUF SEAMLESS products can be sprayed easily when the material temperature is 40°F or above.

The material temperature of the AIR-SHIELD LMP and the ALL SEASON products should be 60° F or above to be successfully sprayed. These products become quite thick and more difficult to spray as temperatures fall below 60° F. The AIR-SHIELD LMP and ALL SEASON products should be stored at 60° F or above prior to use, and the containers should be kept in a heated enclosure at the jobsite during cold weather.

Roller - Material can be roller applied if a ¾" minimum nap roller is used. Several coats will typically be required to obtain the desired thickness. Allow the first coat to dry thoroughly before second coat is applied. Foam-type rollers or shorter naps should not be used, as they will simply slide on the substrate. Rinse and store all rollers used for water-based products in a container of water when not in use. This is necessary, as the material will cure very quickly on the rollers if allowed to "dry out." If this does occur, the rollers will need to be discarded or cleaned with solvent and allowed to dry thoroughly prior to re-use.

EQUIPMENT CLEANUP

Water-based products:

- 1) Solvents must **NOT** come in contact with the liquid emulsion MEL-ROL LM/AIR-SHIELD LM products while in the sprayer, as they will immediately break the emulsion and plug up the entire sprayer system.

- 2) Before starting to spray, the sprayer **MUST** be flushed with clean water.
- 3) When spraying is complete, material must **NOT** be left in the pump, lines or gun as the MEL-ROL LM/AIR-SHIELD LM emulsions will quickly begin to break and cure in the equipment. When finished spraying, **WATER ONLY** should be **PROMPTLY** flushed through the system until pump and hose run clear. Do **NOT** add soap to the flush water, as it too will break the emulsion. "Simple Green" cleaner is the only cleaner found that can be used successfully.
- 4) When spraying is complete, solvents, including xylene, toluene, mineral spirits, paint thinner, gasoline, etc., must **NOT** be used for the **INITIAL** flushing of the system. These solvents will break the emulsion and clog the system
- 5) Aromatic solvents (xylene or toluene) are recommended for the **FINAL** flushing **AFTER** water has been flushed through the pump and lines. If solvent is pumped through the system after being flushed with water, all equipment **MUST** be flushed with water before spraying emulsion. All traces of solvent **MUST** be completely removed. Note: Aromatic solvent may be used to soak and clean the pump housing, gun, and tips. Solvents can be left in the sprayer for short durations (days) to aid in cleaning of the system. Solvents left in the sprayer for extended periods may begin to degrade the seals and hose. Again, all traces of solvent **MUST** be removed prior to using the equipment with the water-based emulsion products.

Solvent-based, ALL SEASON products:

- 1) While the ALL SEASON products are stable in the sprayer, once spraying is complete, solvents should be flushed through the system until pump and hose run clear. Aromatic solvents (xylene or toluene) work best, but mineral spirits, paint thinner, etc., can also be used. Solvents can be left in the sprayer for short periods of time, but should **NOT** be allowed to remain in the sprayer for extended periods of time, as they may begin to degrade the seals and hose.
- 2) When switching from a solvent-based to a water-based product: After flushing with solvent, water **MUST** be flushed through the **ENTIRE** system until all traces of solvent have been removed. When beginning to spray a water-based emulsion product, if **ANY** solvent remains in the sprayer, the pump, hose, gun, and spray tips **WILL CLOG** and need to be cleaned out.

EQUIPMENT SUMMARY CHART

WRM PRODUCT	Water-Based (W/B) Or Solvent-Based (S/B)	Sprayer Type	Hose	Gun	Spray Tip***
AIR-SHIELD LM	W/B	Graco GH 833 or Hydra Max 350	Rated for 4000 psi	Graco Heavy Duty Texture	Graco GHD 551 (0.051")
MEL-ROLL LM	W/B	Graco GH 833 or Hydra Max 350	Rated for 4000 psi	Graco Heavy Duty Texture	Graco GHD 551 (0.051")
AIR-SHIELD LMP	W/B	Graco GH 833 or Hydra Max 350	Rated for 4000 psi	Graco Heavy Duty Texture	Graco GHD 551 or 637 (0.051" or 0.037")
AIR-SHIELD LM (ALL SEASON)	S/B	Graco GH 833 or Hydra Max 350**	Rated for 4000 psi	Graco Heavy Duty Texture	Graco GHD 635 (0.035")
MEL-ROLL LM (ALL SEASON)	S/B	Graco GH 833 or Hydra Max 350**	Rated for 4000 psi	Graco Heavy Duty Texture	Graco GHD 635 (0.035")
MEADOW-PRUF SEAMLESS	W/B	Graco GH 833 or Hydra Max 350	Rated for 4000 psi	Graco Heavy Duty Texture	Graco GHD 551 (0.051")

**Other types of standard sprayers also acceptable.

***Tips should be "reversible" for easy cleanout.

APPLICATION/CLEANUP

WRM PRODUCT	Primer Coat Dilution Ratio (Product : H2O)	Primer Coat Application Rate	Minimum Product Temperature (When Sprayed)	Membrane Application Method	Sprayer Cleanup
AIR-SHIELD LM	4-5 : 1	100-150 ft. ² /gal.	40° F	Sprayer or ¾" (min.) Nap Roller**	Water Flush First
MEL-ROLL LM	4-5 : 1	100-150 ft. ² /gal.	40° F	Sprayer or ¾" (min.) Nap Roller**	Water Flush First
AIR-SHIELD LMP	N/A	N/A	60° F	Sprayer or ¾" (min.) Nap Roller**	Water Flush First
AIR-SHIELD LM (ALL SEASON)	No Dilution Needed	100-150 ft. ² /gal.	60° F	Sprayer or ¾" (min.) Nap Roller**	Solvent Flush First
MEL-ROLL LM (ALL SEASON)	No Dilution Needed	100-150 ft. ² /gal.	60° F	Sprayer or ¾" (min.) Nap Roller**	Solvent Flush First
MEADOW-PRUF SEAMLESS	4-5 : 1	100-150 ft. ² /gal.	40° F	Sprayer or ¾" (min.) Nap Roller**	Water Flush First

**Do not use foam or shorter nap rollers.

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