



Spraying HYDRO BAN[®]

TDS 410

LATICRETE[®] HYDRO BAN[®] can be effectively sprayed to increase productivity on large projects. In addition to the conventional means of applying HYDRO BAN, (see [DS-6630 for Product Data Sheet](#) and [DS-6635 for LATICRETE HYDRO BAN Installation Instructions](#)) the airless spraying technique can be used as an alternate means of application. The following are the guidelines for this procedure. Most airless spray units can be used to apply the HYDRO BAN. This procedure will refer to the use of Graco's Mark IV Electric Airless Sprayer[®] and the 5900 HD Gas Powered Airless Sprayer. These sprayers are designed for spraying the contents from a 15 litre pail. Many airless sprayers are similar in design and will accomplish the same purpose.

MARK IV Electric Airless Sprayer



5900 HD Gas Powered Airless Sprayer



Description	Graco Part Number	Maximum Tip Size	Max LPM	Max PSI (MPA)
Mark IV	249636	0.79 mm	3.6	3300 (22.8)
5900 HD	248699	1.09 mm	6.0	3300 (22.8)

A good understanding of the equipment setup, delivery and cleanup procedures are required in order to effectively spray HYDRO BAN.

Airless Spray Tip Characteristics: It is important to remember that the orifice size, in conjunction with the fan width size, determines the spray characteristics of the tip.

Examples: As the orifice size increases, while maintaining the same fan width size, the greater the volume of coating will be applied to the same area. Conversely, the larger the fan width size, while maintaining the same orifice size, will result in the same amount of material being applied over a greater surface area.

- Tip Size: LTX521 – has an orifice of 0.5mm and a fan width of 250 mm holding the nozzle 300 mm away from the substrate.
- Tip Size: LTX631 – has an orifice of 0.8mm and a fan width of 300mm holding the nozzle 300mm from the substrate.

The use of spray tip with a smaller orifice will result in less product being delivered to the substrate requiring multiple passes to ensure a complete coating with optimum thickness.



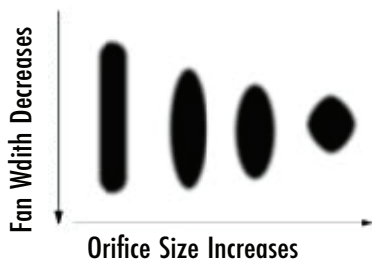
Typical LTX Sprayer Nozzle

Understanding Tip Wear

When beginning a project, choosing the right tip size and fan width will determine how effective the spraying process will be. The correct tip size will have a direct bearing on how much material is dispensed. However, spray tips will wear with normal use. Older, worn tips will increase delivery time and product consumption. Therefore, changing the spray tips often will result in greater productivity.

Choosing the right spray tip is essential for ensuring a quality finish. It's important to replace a tip when it gets worn to ensure a precise spray pattern, maximum productivity and quality finish. When a tip wears, the orifice size increases and the fan width decreases. This causes more liquid to hit a smaller area, which wastes waterproofing membrane and slows productivity. Tip life varies by coating, so if a tip is worn, replace it. Extend tip life by spraying at the lowest pressure that breaks up the coating into a complete spray pattern (atomize). Do not increase the pump pressure; it only wastes waterproofing membrane and causes unnecessary pump component wear.

The graphic example below demonstrates the spray pattern of new and worn spray tips. As wear occurs, the pattern size decreases and the orifice size increases. As a rule of thumb, it is best to replace the spray tips after spraying 110-170 litres of HYDRO BAN®.



Spray Guns

Follow the specific airless sprayer and spray gun manufacturer's written instructions when using their specific equipment. Graco's Silver Gun Plus® is depicted in the photo below. This spray gun can be used for both vertical and horizontal applications. Some Spray Guns will allow filtering in the gun handle. The filters will need to be periodically cleaned and changed to ensure proper liquid flow through the spray gun and tip.



Application of HYDRO BAN®

Follow all surface preparation requirements outlined in Data Sheets [DS-6630](#) and [DS-6635](#). The sprayer should produce a maximum of 3300 psi (22.8 MPa) with a flow rate of 3.6 to 6.0 LPM using a 0.521 or a 0.631 reversible tip. Keep the unit filled with HYDRO BAN to ensure continuous application of liquid. The hose length should not exceed 3000 cm in length and 9mm in diameter.

Apply a continuous HYDRO BAN film with an overlapping spray. The wet film has a sage green appearance and dries to a darker olive green colour. When the first coat has dried to a uniform olive green colour, approximately 45 to 90 minutes at 21°C, visually inspect the coating for any voids or pinholes. Fill any defects with additional material and apply the second coat at right angles to the first. The wet film thickness should be checked periodically using a wet film gauge. Each wet coat should be 0.4 – 0.6 thick. The combined dried coating should be 0.5 - 0.8 mm thick.



Check application thickness with a wet film gauge periodically as the HYDRO BAN is being dispensed to ensure that the appropriate thickness and coverage is achieved. Bounce back and overspray will consume more product. To achieve the required film thickness, the coating must be free from pinholes and air bubbles. Do not back roll coating. Allow the HYDRO BAN to cure in accord with the instructions in Data Sheets [DS-6630](#) and [DS-6635](#) prior to the installation of the tile or stone finish.

It is important to note that areas not scheduled to receive the HYDRO BAN should be taped off and protected from any potential overspray. Expansion and movement joints should be honoured and treated as outlined in Data Sheets [DS-6630](#) and [DS-6635](#).

NOTES: The operator of the spray equipment must have a working knowledge of the equipment used and be able to adapt to the project conditions as the spraying takes place. As the spray tips wear, adjustments will need to be made. Spray tip selection, pressure adjustments and hose length will have a direct bearing on the results achieved.

Spray Equipment Setup, Clean Up and Maintenance

Follow the airless sprayer manufacturer's instructions on set up, operation, clean up and maintenance of their equipment. The airless spraying unit should be flushed, clean and free from any contaminants prior to use with HYDRO BAN.

Health and Safety

Follow all applicable health and safety requirement when applying HYDRO BAN. The use of protective clothing, safety glasses and a dual cartridge respirator are recommended. See SDS on HYDRO BAN for complete information.



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