

Before You Apply:

MAXON-HW has a highly reactive catalytic agent in a waterborne proprietary colloidal silicate base that produces a silica hydrogel below the surface and inside the concrete matrix.

MAXON-HW **cannot function** if there are:

- (1) Other sealers on the concrete surface, this includes any MAXON-CP that remains on the substrate from prior applications.
- (2) Polymers in the mix

Precautions:

- Protect/cover all glass in and around the work area. MAXON-HW will etch glass if it comes in contact.
- Cover everything not intended to be treated. Incidental damage may occur on unintended surfaces.
- Spills or spray droplets in contact with glass should be removed immediately by flushing with water.
- Some discoloration of aluminum may occur.
- Do not proceed with application of MAXON-HW when ambient temperature and/or substrate temperatures are less than 40°F/4.5°C or forecasted to drop below 40°F/4.5°C during the next 6 hours.

Application / Job Site Conditions

1. Low Temperatures: Do not proceed with application of MAXON-HW when ambient temperature and/or substrate temperatures are less than 40°F/4.5°C or forecasted to drop below 40°F/4.5°C during the next 6 hours.
2. High Temperatures: Should ambient or substrate temperature be 95°F or higher, cool surface with sufficient water so that the surface stays damp. Disperse puddled water.
3. Wind: Caution should be taken in windy conditions. Do not allow product to contact surfaces not intended for MAXON-HW application.
4. Dry: If allowed to dry, MAXON-HW can etch glass or dull shiny aluminum. If contact is made with glass or aluminum, rinse surface immediately with water before MAXON-HW dries on surface.
5. Penetration: As a waterborne product, MAXON-HW must have access to the surface. Any previous coatings or heavy buildup of oil or grease must be removed.
6. Product strength: Do not dilute. Use as supplied.
7. Applying impervious coatings, coverings, etc.: Once MAXON-HW is applied, wait 28 days on new concrete and wait 72 hours on existing concrete before applying impervious coatings, coverings, etc.
8. Fractures: MAXON-HW only seals the concrete itself, not fractures.

Shelf Life

Shelf life is expected to be 5 years if container is new/sealed and stored in a cool, dry environment.

Maintenance

Special maintenance of treated area is not required.

MADE IN THE USA

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Application Procedure For Established/Cured Concrete

- MAXON-HW must be applied with a high pressure airless sprayer with spray tip size as follows:
 - .013" 25 degree fan tip for steel troweled smooth concrete
 - .015" - .019" 25 degree fan tip for porous or weathered concrete
- Application of the material with the airless sprayer shall be at a 90 degree angle to the surface of the wall or floor.
- Pre-wet area of application with water to cool concrete that is extremely hot (95°F/35 °C or higher). Pooled and puddle areas must be dispersed. Continue to keep damp until MAXON-HW has been applied.
- Apply MAXON-HW at a rate not less than 1 liter to 5 m²/150 sq. ft. per U.S. gallon. Two applications of MAXON-HW will be required, using a crosshatch pattern, to achieve this rate. The first application should be sprayed in an East-West direction. Spray the second application as soon as the surface sheen from the first application has dissipated (normally 10-60 minutes. Do not allow drying). The second application should be sprayed in a North-South direction. Apply wet on wet. For best results apply to maximum tolerance. This is accomplished when the sheen takes 15-20 minutes to dissipate.
- Start application holding spray tip approximately 8"–12"/200–300mm from concrete surface, make application using overlapping spray pattern with a fanning motion at the end of each pass.
- Entire area being treated is to be saturated, but do not allow MAXON-HW to puddle. Disperse puddled areas with a broom 15–30 minutes after application is completed. Do not allow puddles of MAXON-HW to dry.
- Always start application at lowest possible area and proceed to higher elevations. For vertical walls, begin at the bottom with East-West, overlapping spray patterns. Work your way from the bottom to the top. Then, immediately go back over the same area just treated using a North-South overlapping spray pattern.
- Check whether MAXON-HW has purged to the surface of concrete any oil, gas, greases and salts, etc. These must be thoroughly washed or abraded away before adhesives or coatings are applied.
- When treatment is to weeping hydrostatic concrete, repeat step number 3 until weeping stops.
- Important caution when applying coatings: following the application of MAXON-HW, we recommend that the surface be thoroughly cleaned prior to coating to remove any potentially bond breaking contaminants that may have been purged to the surface.

HVLP-Spray Protocol

Maxon-HW spray application for small/restricted areas can be achieved with the use of HPLV spray equipment. Pressure and atomization are the key elements.

2000 PSI-138 bar is essential for proper application. This allows for proper separation of the active ingredients and the carriers which allows for integration and penetration of Maxon-HW. This spec can be found in a HPLV system.

Regulated spray pot pressure will apply best at 20-100 PSI / 1-7 Bar, this will be equal or slightly less at the fluid nozzle or tip at the gun/the length of spray lines.

Air pressure at the air cap on the gun should be at 40-80 PSI / 3-6 Bar to give the spray a finer mist.

A smaller tip size found in the HPLV equipment allows for less over spray, better containment of waste, faster application times, and reducing cost.

Larger airless equipment is better served for higher square meter / square foot projects where hoses and over-spray are less likely to affect the outcome.

Clean-Up and Safety

- Caution must be taken, as treated surfaces may be slippery until completely cured.
- No special clothing, breathing apparatus, goggles or gloves are necessary, but in enclosed areas it is advisable to wear an appropriate respirator to avoid possible irritation to breathing.
- Attention should be made to watches, eyeglasses, etc., as MAXON-HW can etch glass or discolor aluminum if allowed to dry.
- Clean equipment using water and mild soap. Never store spray equipment without cleaning and following manufacturer's recommendations for storage between usages.