



DESCRIPTION

Clean-Shield is a biodegradable, nontoxic cleaning solution specially formulated to safely and effectively clean, brighten and restore a variety of masonry substrates. Clean-Shield penetrates the surface and chemically reacts to remove contaminants and deposits like hard water stains, efflorescence, dirt, algae, mold, mildew, rust and other hard to remove contaminants. Clean-Shield can be used on concrete, brick, stone, aggregate and block surface and is non-corrosive, leaving behind only a cleaner and brighter surface.

APPLICATION EQUIPMENT

The equipment needed to apply the Clean-Shield cleaning solution include:

- Low-pressure pump sprayer (50 psi max)
- Stiff bristle brush
- Wire brush
- High-pressure garden hose

WEATHER CONDITIONS

Clean-Shield is effective at most temperatures, but will react faster at higher temperatures. Clean-Shield can be applied at temperatures of 40 - 100°F (4.4 - 37.7°C). However, for best results, apply when ambient and substrate temperatures are between 60 - 85°F (15.6 - 29.4°C). When ambient and substrate temperatures are below 45°F (7.2 °C), rinse substrate with warm water to raise the substrate temperature before application. Dwell time varies between 15 minutes and three (3) hours depending on conditions, contaminants, relative humidity, and temperature. Dwell time will increase incrementally with colder ambient and substrate temperatures.

SURFACE PREPARATION

Clean-Shield must be applied to properly prepared surfaces. Ensure all surfaces to be treated are free of dirt, oil, paint, curing compounds and all contaminants that may prevent penetration of the Clean-Shield solution. Scrape, sand, or wire brush all hard or glossy surfaces to ensure effective cleaning. Use the most abrasive methods the substrate allows to remove all contaminants that will inhibit the cleaning solution from properly saturating the substrate. Protect plants, shrubs and glass from overspray. Should incidental contact occur with surfaces not intended for treatment, remove overspray by flushing the area copiously with water.

APPLICATION

When using Clean-Shield, the incline of the substrate will dictate the application procedure. Due to the number of different contaminants and the unpredictable nature of certain substrates, a field test is recommended to determine the effectiveness of Clean-Shield.

These are general guidelines for application of Clean-Shield. The material requirements may vary depending on the specific job requirements. If unusual conditions exist, contact your local Garland representative.

Vertical Substrate

1. Test a small area before full application to observe any surface discoloration; the product will have a slight glossy appearance after the product has fully dried.
2. Rinse the substrate with a pressurized garden hose to remove excess debris and dampen the surface.
3. Apply Clean-Shield directly to the affected areas in an overlapping pattern with a low-pressure pump sprayer (50 psi max), starting from the top and working downwards.
4. Allow the solution to soak into the surface for 20-30 minutes. Do NOT allow the surface to dry. Re-apply a light mist of the solution intermittently to keep the surface damp.
5. On heavily soiled surfaces, scrub the substrate with a stiff bristle brush after the solution has soaked.
6. Using an overlapping pattern, rinse the surface from top to bottom with water. Extremely contaminated surfaces may require the use of a pressure washer.
7. Assure that any surfaces contacted by Clean-Shield during the rinsing process also be thoroughly rinsed to avoid potential discoloration or damage to horizontal surfaces or roof surfaces.

Horizontal Substrate

1. Verify the substrate is free of dirt and contaminants.
2. Pressure wash the substrate at an angle to prevent over-saturation and to remove residual debris.
3. Apply Clean-Shield directly to the affected substrate in an overlapping pattern with a low-pressure pump sprayer. Start at one end of the surface and work across, wetting the surface entirely.
4. Be careful of overspray as this solution will damage roof surfaces.
5. Allow the solution to react, then scrub the substrate with a stiff bristle brush.
6. Allow the solution to soak into the surface for 20-30 minutes. Do NOT allow the surface to dry. Re-apply the solution in a light mist intermittently to keep the surface damp.
7. Pressure wash the substrate using an overlapping side-to-side pattern on each pass.

Note: To prevent future contamination, all substrates should be sealed after cleaning. Wait at least 24 hours before sealing.

Clean-Shield

Application Guidelines



CLEAN UP

Clean-Shield can be rinsed away with water. Because the formula is nontoxic and biodegradable, Clean-Shield runoff and rinse water is safe for the surrounding environment.

PRECAUTIONS

- Test spray equipment for compatibility and to avoid discoloration.
- Do not use sprayer over 50 psi. Such aggressive application will drive the chemicals deep into the surface, making complete rinse difficult.
- Do not atomize.
- Do not use this product on any surface it is not intended for (Clean-Shield is formulated for use on targeted concrete and masonry substrates).
- Do not use on roofs.
- Do not use on painted or sealed surfaces unless they are being prepped for repainting or resealing.
- Test the cleaning solution in an inconspicuous location to verify the effectiveness and appearance before cleaning the entire substrate.
- Allow the surface to dry for at least 24 hours before sealing or painting.
- Consult your local Garland representative or Garland Technical Department before any deviations from published specifications are considered. Unapproved deviations from application guidelines and specified material requirements may seriously affect the cleaning solutions performance and shall be undertaken at the applicator's own risk.



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