

CCI-1000 LithiCon Densifier Application

This application should only be performed by an experienced professional.

Preparation

Protect people, vehicles, property, plants and all surfaces not designated to receive CCI-1000 LithiCon Densifier from the product, splash and wind drift. Use polyethylene or other protective material.

Do not apply to surfaces which are frozen, dirty or have standing water. Surfaces must be clean, dry and absorbent. Confirm surface absorbency with light water spray. Surfaces designated for treatment should wet uniformly. If the surface does not, use CCI-750 Cleaner or mechanical process to remove surface contaminants.

CCI-1000 LithiCon Densifier is ideal for application to existing, cured concrete of any age. Surface must be clean and structurally sound. Remove all foreign materials including bond breakers, curing agents, surface grease and oil, and construction debris.

Surface and Air temperatures for application should be between 4 and 38°C. Apply with a Chapin® sprayer, Mop or Soft-Bristled push broom. Variations in the concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Use the coverage rates suited to your needs:

Uncured, Steele-Troweled Concrete:	20 to 24 Square Meters per Liter (800 to 1000 Square Feet per Gallon)
Cured, Steel-Troweled Concrete:	15 to 20 Square Meters per Liter (600 to 800 Square Feet per Gallon)
Cured, Grounded/Honed concrete:	12 to 17 Square Meters per Liter (500 to 700 Square Feet per Gallon)

Freshly Placed, Uncured Steele-Troweled Concrete

After final finishing, soft cut control joints.

Clean concrete of any dirt, residue or soft cut saw debris.

Using a Chapin® sprayer fitted with a 0.5 GPM spray tip, apply a single coat of CCI-1000 LithiCon Densifier. Apply sufficient material to wet the surface without producing puddles. Use a clean, soft-bristle broom or microfiber pad to spread the product evenly to ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surface dries immediately, apply more product. Surface should remain wet for 5 to 10 minutes. Adjust rate of application to eliminate puddles. Allowing excess material to puddle will extend the drying time and creates a white residue which must be removed immediately.

Allow treated surface to dry.

Immediately apply the specified curing compound or initiate the specified curing procedure.

When the curing process is complete use an automatic floor scrubber equipped with cleaning pads or brushes appropriate for removal of accumulated construction soiling and surface residues. Avoid pads or brushes which may cause damage to the finished floor. This process will further enhance the surface sheen produced by CCI-1000 LithiCon Densifier. For additional shine and protection apply CCI-1000 TefloCon according to instructions.

Cured, Steeled-Troweled Concrete

Remove all dirt, debris, or curing compounds using CCI-750 Cleaner. Allow Cleaning waters to dry completely.

The prepared surface must wet uniformly. Confirm surface absorbency with light water spray. In hot, dry weather pre-wet the concrete with fresh water. Allow standing water to evaporate.

Using a Chapin® sprayer fitted with a 0.5 GPM spray tip, apply a single coat of CCI-1000 LithiCon Densifier. Apply sufficient material to wet the surface without producing puddles. Use a clean, soft-bristle broom or microfiber pad to spread the product evenly to

ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surface dries immediately, apply more product. Surface should remain wet for 5 to 10 minutes. Adjust rate of application to eliminate puddles. Allowing excess material to puddle will extend the drying time and creates a white residue which must be removed immediately.

Allow treated surface to dry.

Remove any dried powder residue using a stiff broom, power sweeper or floor scrubbing machine.

For immediate shine buff or burnish the dry concrete surface in both directions using an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a DRY BUFFING OPERATION. For additional shine and protection apply CCI-1000 TefloCon according to instructions.

Cured, Ground/Honed Concrete

Sand, Level or Grind the concrete surface with a floor sander, orbital floor machine or diamond grinding as needed to achieve desired exposure.

Remove all dirt, debris, or curing compounds using CCI-750 Cleaner. Allow Cleaning waters to dry completely.

Using a Chapin® sprayer fitted with a 0.5 GPM spray tip, apply a single coat of CCI-1000 LithiCon Densifier. Apply sufficient material to wet the surface without producing puddles. Use a clean, soft-bristle broom or microfiber pad to spread the product evenly to ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surface dries immediately, apply more product. Surface should remain wet for 5 to 10 minutes. Adjust rate of application to eliminate puddles. Allowing excess material to puddle will extend the drying time and creates a white residue which must be removed immediately.

Allow treated surface to dry.

Remove any dried powder residue using a stiff broom, power sweeper or floor scrubbing machine.

If additional sheen is desired buff or burnish the dry concrete surface in both directions using an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a DRY BUFFING OPERATION. For additional shine and protection apply CCI-1000 TefloCon according to instructions.

Cured and Polished Concrete

Sand, Level or Grind the concrete surface with a floor sander, orbital floor machine or diamond grinding as needed to achieve desired exposure.

Remove all dirt, debris, or curing compounds using CCI-750 Cleaner. Allow Cleaning waters to dry completely.

Using a Chapin® sprayer fitted with a 0.5 GPM spray tip, apply a single coat of CCI-1000 LithiCon Densifier. Apply sufficient material to wet the surface without producing puddles. Use a clean, soft-bristle broom or microfiber pad to spread the product evenly to ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surface dries immediately, apply more product. Surface should remain wet for 5 to 10 minutes. Adjust rate of application to eliminate puddles. Allowing excess material to puddle will extend the drying time and creates a white residue which must be removed immediately.

Allow treated surface to dry.

Remove any dried powder residue using a stiff broom, power sweeper or floor scrubbing machine.

Using progressively finer abrasives, continue diamond polishing in consecutive steps to achieve the desired finish. Remove all polishing dust and debris. For additional shine and protection apply CCI-1000 TefloCon according to instructions.