

# CHEMTEC ONE

## Installation instruction for CHEMTEC ONE concrete protector.

CHEMTEC ONE is a proprietary blend of water diluted and carried reactive silicates and surface active agents... concrete treatment that penetrates the concrete's permeable zones producing a solid, insoluble, irreversible reaction products residing in the gel pores.. dramatically reducing porosity of the concrete...increasing adhesion qualities...maintaining the concrete's ability to breathe...chemically protecting, stabilizing and strengthening concrete. CHEMTEC ONE WILL PROTECT, HARDEN, DENSIFY, STRENGTHEN, SEAL & INCREASE THE USEFUL LIFE OF YOUR CONCRETE

**"THE ULTIMATE CONCRETE PROTECTION"**

**CHEMTEC INT'L INC. (513) 474-2090**

7771 WOODSTONE DRIVE, SUITE 100, CINCINNATI OHIO 45244-2855

**WARNING AND STATEMENT OF HAZARD: IRRITATING TO SKIN, EYES, MUCOUS MEMBRANES OF THE RESPIRATORY AND DIGESTIVE TRACTS.**

**MODERATE HEALTH HAZARD...1,**

**MINIMAL REACTIVITY HAZARD ...0,**

**MINIMAL FIRE HAZARD...0,**

**WEAR PERSONAL PROTECTION WHEN USING CHEMTEC ONE: PROTECT YOUR EYES AND SKIN BY WEARING RUBBER GLOVES, SAFETY GOGGLES, FACE SHIELDS, STURDY WORK BOOTS, LONG SLEEVE SHIRTS AND LONG PANTS. IF MISTING OR SPRAYING WEAR MIST RATED BREATHING PROTECTION.**

**WARNING AND STATEMENT OF HAZARD CONTINUED:**

- DO NOT INGEST BUT IF SWALLOWED DO NOT INDUCE VOMITING - SEEK IMMEDIATE MEDICAL HELP.
- IF SKIN CONTACT OCCURS, PROMPTLY WASH WITH WATER. IF EYE CONTACT OCCURS, IMMEDIATELY FLUSH WITH A DIRECT STREAM OF WATER FOR 15 MINUETS.
- IF IRRITATION OR ILL EFFECTS DEVELOP OR PERSIST SEEK IMMEDIATE MEDICAL HELP.
- TREAT ACCORDING TO THE INDIVIDUAL'S CONDITION AND SPECIFICS OF THE EXPOSURE.
- THIS FORMULA IS NOT SUBJECT TO RESTRICTIVE OR SPECIAL HANDLING DEFINED UNDER ENVIRONMENTAL REGULATIONS.
- KEEP CONTAINER CLOSED WHEN NOT IN USE. WHEN CONTAINER IS EMPTY, CONTINUE TO OBSERVE ALL SAFETY PRECAUTIONS.
- DO NOT REUSE CONTAINER UNLESS COMMERCIALY CLEANED.
- REFER TO THE MSDS FOR ADDITIONAL HANDLING AND SAFETY INFORMATION.

**WARNING:** Wear personal protective clothing that will shield you from contact with this formulation. Avoid contact with skin.

Avoid contact with eyes. Do not ingest. Ventilate the work area well. If a runny noise begins and persist go to fresh air until symptoms stop. If asthmatic symptom begin go to fresh air until they stop. Vapor rated respirators are recommended in closed areas if good ventilation can not be achieved. There are however no special handling requirements defined in environmental regulations. Preparation prior to working with CHEMTEC ONE... an alkaline soluble formulation that is likely to irritate on contact with the body. Wear face shields and safety glasses. Wear tough standard work boots. Wear long pants. Wear long sleeve shirts. Wear long gloves. Wear other protective gear that is mandated by the environment.

## HOW TO APPLY THE CHEMTEC ONE FORMULATIONS

PREPARATION: Prior to implementing the project. Remove debris from the concrete to be treated. **Be sure to clean the concrete to a state which is water permeable and porous, DO NOT ACID WASH CONCRETE.** Cover drains to prevent loss and waste of material. Install temporary fan or ventilation in enclosed areas. Bring opened container of the material or pumping system into the area to be treated. Bring tools for all members of the implementation team for the distribution of the material in the project area like squeegees, brooms, sprayers and so on. New floors do not need any preparation.

**APPLICATION:** Pre-determine the amount of formula (Gallons) that will be needed to complete the project.

**A) Application on Steel troweled Surfaces:** CHEMTEC ONE is applied in **ONE** application at a rate of 175 to 250 square feet per gallon. On new floors, you can install the formula as soon as possible after the finish troweling operation. After the surface is hard enough to walk on with out marking. It is recommended that you do not treat an area to large to manage, normally two to three people can control three section wide the length of the slab at a time. Simply saturate the surface with the formula, keeping the entire surface wet. Keep moving the formula around the floor with bristle brooms or mechanical scrubbing machines until the formula starts to react and become slippery under foot, approximately 15 to 40 minutes after you apply the formula. If the material starts to gum up prior to removal then re-mist the floor with fresh water do not flood the surface with water, just enough to make the formula easy to move around. Then squeegee the formula off the surface or use a mechanical floor vacuum to remove the formula, and allow the floor to dry. Do not allow areas to prematurely dry while you are working the formula in. On existing floors, thoroughly clean the floors so that they are water permeable. The existing floor must be completely dry. Use the same application as above. A sheen will normally develop over time. **CAUTION: DO NOT** allow areas to puddle and dry as they will leave a hard white crystal on the surface. A recommended step for applicators that want to have a slight sheen immediately after the application, is to lightly mist the surface with CHEMTEC ONE formula (**do not flood the surface**) and work it in with a lambs wool applicator until the floor is about dry and **NO** puddles are visible. **DO NOT APPLY TO WET CONCRETE**

**A.2) Application on Steel troweled Surfaces in Food Preparation, Retail Grocery, Harsh Environments or Dusting Problem Areas AND FOR WAL-MART NEIGHBORHOOD GROCERY ACCOUNT.** CHEMTEC ONE is applied in **TWO** application at a rate of 175 to 250 square feet per gallon. On new floors, you can install the formula as soon as possible after the finish troweling operation. After the surface is hard enough to walk on with out marking. It is recommended that you do not treat an area to large to manage, normally two to three people can control three section wide the length of the slab at a time. Simply saturate the surface with the formula, keeping the entire surface wet. Keep moving the formula around the floor with bristle brooms or a mechanical scrubber until the formula starts to react and become slippery under foot, approximately 15 to 40 minutes after you apply the formula, then squeegee the formula off the surface or use a mechanical floor vacuum to remove the formula, and allow the floor to dry for approximately 30 minutes, then apply the 2<sup>nd</sup> application the same as the 1<sup>st</sup> application and allow the floor to dry for 30 minutes. Do not allow areas to prematurely dry while you are working the formula in during the first 2 applications. On existing floors, thoroughly clean the floors so that they are water permeable. The existing floor must be completely dry. Use the same application as above. A sheen will normally develop over time. **CAUTION: DO NOT** allow areas to puddle and dry as they will leave a hard white crystal on the surface. PLEASE CONSULT THE LATEST WAL-MART SPECIFICATION FOR ALL OTHER INFORMATION REGARDING BURNISHING OPERATION

**B) Application on brushed finished fully cured surfaces such as bridge decks, roads, loading ramps, parking facilities, driveways and so on.** CHEMTEC ONE is applied in **TWO** applications at a rate of 100 to 125 square feet per-gallon for each application. Simply saturate the surface and let it dry using the following method. Puddling areas should be pushed over to dryer areas. Areas that dry prematurely should have more formula pushed to it or be re-sprayed. Brush the formula around the surface until it is absorbed in, then just let it dry. The goal is to get the proper amount of formula to penetrate as uniformly as possible. The second application is a repeat of the first application. **WAIT** a minimum of **4 to 6 hours** between applications. (Page 2 of 3)

**CAUTION:** There must be a minimum of **12 hours** with **NO** water being allowed on the surface after the last application. A **quality control step to make sure you have reached proper saturation levels is to, take an eye dropper with muriatic acid with 28% HCL level and randomly test the concrete with a drop of acid immediately after the second application has dried. Put a drop of acid on the treated surface and observe it for a few seconds, then wipe it up. If you get very little to no reaction to the acid you have reached the proper saturation level. If it reacts you need to put more material on those areas until the acid does not react.** **C) Application on Vertical or underneath bridge decks or parking facility ceiling surfaces.** Because you are working against the force of gravity and using the wicking acting of the concrete to draw the formula in on these surfaces, you will need to apply CHEMTEC ONE at a slower rate with a minimum of two to three applications. Use a paint roller or a mist sprayer to apply the formula. The surface must be completely dry before proceeding. On vertical surfaces apply the formula starting at the top of the surface, working you way down. Apply the formula by saturation the surface, but not creating excessive run off. Wait until the surface is dry approximately 2 to 3 hours before applying the second and third applications. Use the same procedure on each application.

**When applying the formula on the underneath of bridge decks or parking facilities ceilings,** saturate the surface until the formula starts to drip back out. Wait until the surface is dry, approximately 2 to 3 hours and perform the second and third applications the same as the first application. This particular type surface application will take 3 application. Coverage will vary with particular concrete being treated, the temperature and the amount of waste generated by the applicator. Normal coverage rate for this type of application should be 175 to 200 square feet per gallon for each application.

• It is likely that the treated concrete will have a brown tint when the project is complete that will not remain, but it is an indication that iron is present in the concrete. After the last application has dried traffic can return to the area. Roughly three hours after the completion of the project.

### **CHEMTEC ONE**

**"THE ULTIMATE CONCRETE PROTECTION"**

**Manufactured by**

**CHEMTEC INT'L INC. Cincinnati Ohio**

**(513) 474-2090 Toll Free 1-888-889-7779 [www.concretesealer.net](http://www.concretesealer.net)**

• **Please watch the weather reports,** it is crucial that the surface of the concrete not get wet for at least 10 to 12 hours after the final application of the product. **CAUTION** Avoid applying or splashing on glass, painted surfaces, or aluminum. Product may stain these surfaces. Protect decorative fronts from contact. Keep out of traffic pattern when treating roadways or bridges . It is recommended that you flush Bridge Decks and Roadways with fresh water 24 hours after the last application has dried, to prevent any un-reacted material that may be on the surface from becoming slick at the first rain. If you intend to paint lines or install toppings on the surface after treatment, flush surface with fresh water and let dry prior to your installation. Dispose of waste properly per federal, state or local environmental regulations if required. **DO NOT ALLOW CONCRETE TO FREEZE FOR 24 HOURS. DO NOT STORE IN ALUMINUM OR METAL CONTAINERS. DO NOT APPLY TO WET CONCRETE. Cti707**