



Spalling repair protocol

There are many options for deteriorating concrete and spall repair. Below is just a list on how and when to apply material:

If it is determined that salt is not an issue regarding the spalling problem at hand, it is possible to directly use the MAXON-HW on the concrete.

For removal of salts/chlorides from concrete substrates subject to splash up or exposure:

STEP ONE

*Always wet the concrete substrate before applying any of the **MAXON CP or MAXON HW. This will greatly encourage immediate penetration of these products. This can be done with a Hudson sprayer, weed sprayer, or an airless sprayer.

MAXON CP. Apply with an airless sprayer with a tip size under 15, or a HPLV with a conventional compressor . A top down application is recommended. Sprayer shall be held at a ninety degree angle approximately ten inches from the surface to be treated. The First coat shall be applied vertically in a top to bottom motion, the second, horizontally from left to right. Touch up may be done with direct spray on holes, cracks, and damaged surfaces. Please apply to the substrate until refusal. Runs will occur at that point. Salt will begin to purge and appear on the exposed treated concrete surface later in the day and may be white in color while purge continues. Do not be alarmed, this is typical and shall be removed and cleaned with the solution shown below.

CREATING A SAFE SOLUTION

To adequately, and safely, remove salt stains from the treated concrete, you'll need the following

- 2 cups of vinegar
- 2 tablespoons of dish soap.
- 2 gallons of warm water, a bucket, and a scrub brush as needed

Rule of thumb: For every one gallon, use 1 cup of vinegar and 1 tablespoon of detergent. For hard to remove salt stains, you can double the vinegar (2 cups).

* the purchase of Chlor-rid or Salt-off may be needed if the amount of salt being purged is excessive.

The CP may purge salt for some time depending on the amount of salts found in the first five inches of the concrete. This is a very good thing. The removal of salts and chlorides are essential for a healthy concrete structure, and to protect the steel reinforcement.



Spalling repair protocol

STEP TWO

MAXON-HW:

Apply with an airless sprayer with a tip size under 15, or a HPLV conventional compressor . A Top down application is recommended. Sprayer shall be held at a ninety degree angle approximately ten inches from the surface to be treated. The First coat shall be applied vertically in a top to bottom motion, the second, horizontally from left to right. Touch up may be done with direct spray on holes, cracks, and damaged surfaces. Please apply to the substrate until refusal. Runs will occur at that point. This could create a small additional purge. MAXON HW requires 24 hours to reach it's full effective penetration into the concrete. No re-coating shall be done until this time has passed.

These products **MUST** be applied in this order: MAXON-CP and then MAXON-HW.

These products will not allow water to fully penetrate the concrete, and will allow the concrete to breathe.

STEP THREE

CRS:

Where the concrete has been removed and exposed rusted rebar can be seen, apply CRS as follows:

- Expose as much rebar without damaging the concrete as possible.
- Clean rebar with pressure sprayer to remove loose materials and rust.
- Apply one coat at one mil covering to all exposed rebar in a vertical, Up and down motion. Let dry until tacky.
- Apply another coat one mil in a horizontal, left to right motion. Let dry until dry.
- Last coat, **LOOK AT THE REBAR CLOSELY**. IF you see holidays or areas that could use more material please take action. Apply this last coat with care, and govern yourself accordingly. One mil total.

Typically, Three wet mils of CRS will become two dry mils. You are abating corrosion and rust with this product.



Spalling repair protocol

STEP FOUR

Apply C2M Concrete bonding agent with a brush on application to cover the rebar and the newly exposed concrete before application of a fast drying cement based product.

Mix the product one to one powder into liquid. 25% of the powder into the liquid mix well and add the next 25%. Do this until all the material is mixed well.

First stripe coat on the edges where the concrete was removed. You **MUST STRIPE** all the edges and the rebar with a one mil cover. Do not apply again until dry to the touch.

Let the product dry to the touch before the second two mill coat, **DO THE EDGES FIRST**, first to confirm the sharp edges have been well covered. Apply C2M to the entire exposed area. Top down in one horizontal east west direction. Do not re-apply until dry to the touch. C2M dries quickly.

Third coat, cover the entire area in a vertical North South direction, and touch up light areas. C2M has a long pot life, just stir to keep color and product mixed. Try and keep it out of the sun, and cover as needed.

Next day apply fast curing concrete.