

## Spalling repair protocol (small segments)

1. Remove all loose concrete around the rebar with a screwdriver or similar tool.
2. Take a thorough examination of the spall and the concrete surrounding it and see if there is any further damage where there are large cracks in the slab.
3. After examination, any remaining loose concrete should be removed. Use a damp cloth to wipe off all dust and debris from the spall area and off the rebar itself.
4. Apply CRS to the rebar, the rebar joints, or any other exposed sections. If you must replace any rebar that is too corroded, please be sure to apply CRS on the new rebar to aid in preventing corrosion and halo effect. Be sure to cover the entire exposed rebar (top, bottom, behind).
5. After the spall area has been reviewed and the CRS has dried (approximately 2 to 4 hours). C2M should be applied over the CRS to all exposed concrete areas and the rebar. Be sure to fully coat around the exposed rebar.
6. Then apply C2M to the entire spall area where the repair concrete cast will be applied, at approximately two mils one coat. Two coats should be applied in a cross-hatch method.
7. Next, apply quick drying cement of your choice to re-cast the spalled area. Let cement dry and cure according to its requirements.
8. Once dried, apply C2M to the cold joints thoroughly. Stipple with a paint brush if necessary to get C2M into every crevice and pit. (stippling is brushing material onto a surface by dabbing in a downward motion directly into any crevices)
9. If Indoors: Use MAXCN-HW to densify the concrete, it will penetrate 150mm or 5 + inches into the concrete to stop further spalling in areas you cannot see.
  - a. If Outdoors: Apply MAXON-CP first to remove salts and chlorides then apply HW.
  - b. On slabs or roofs: Apply MAXON-CP first to remove salts and chlorides then apply HW.
10. When quick drying cement is fully cured, and cold joints are fully applied with C2M, you can then paint the entire area with C2M. Two coats of C2M is recommended, one coat applied east-west, one coat applied north-south. Total thickness for both coats should add up to no more than 3-4 mils. When applying C2M, be sure to let each coat sit until it is dry to the touch, then put on the second coat in the opposite direction. Let the entire application of C2M dry for four to six hours.
11. Then, if desired, apply a 1k or 2k paint on top to keep the moisture from coming back through the concrete.
12. On a larger more dramatic cracks and problems the same procedure is done only scaled up by using more product and a larger crew will be needed to investigate the spalled areas.

**NOTE: Timing and scheduling of steps will be affected by your local temperature, humidity, and direct sunlight. Please conduct tests before starting a project.**