

CONVERGENT SlabArmor™

Best Practices



Sub-base Prep Placement

1. Proper form setup is essential and must be established from a single benchmark.
2. Ensure sub-grade is properly compacted before placing any concrete. A properly consolidated base will support the redi-mix trucks without rutting.
3. Concrete Slump should be maintained +/- 1".
4. Concrete placement should be as uniform as possible in front of the screed to avoid uneven aggregate exposures issues.
 - Placing the concrete too high and striking it off will cause stripes of aggregate when polished as the lows will leave stripes of cream that are unavoidable and will be permanent imperfections in the floor.
5. Laser Screed /Truss /Hand-held Vib Screed acceptable (vibration is required for proper consolidation)
 - Turn off vibration when stopping screed to avoid creating a cream line with the screed.
6. Apply the first application of CONVERGENT SlabArmor™ Starter @ 1200 sqft/gal
7. Roller Bug (may also be adapted to the Laser Screed)
 - Roller Bug is used to ensure the large aggregate is pushed down
 - Should be run in 1/2 overlapping passes
8. Channel Float/Bull Float "Mop" (8' to 10' preferred) to smooth the surface and locate high and low spots that need to be corrected. Major re-straightening if required must be done during this phase.
9. Re-straighten edges, columns, wall lines, and around all protrusions w/ 4' board and smoothed with a magnesium hand float. (These areas shouldn't have a steel trowel used on them until the body of the floor is being closed with steel trowel blades.)

Finish

1. Wait until bleedwater sheen has disappeared and a footprint leaves 1/4" or less indentation before breaking the surface the first time with pans or float blades.

- First break w/pans should follow a pattern 90° to screed direction.
 - Back all edges with trowel to avoid stacking the aggregate at the edges.
2. Apply the second application of CONVERGENT SlabArmor™ Starter @ 1200 sqft/gal
 - This application may be applied via sprayers on the riders to avoid walking on the slab.
 3. If you need to walk on the slab for any reason kneeboards or finishing slicks must be utilized to maximize your floatation and minimize depressing the aggregate. (Any footprints will be visible after polished and will require a change order and re-grind.)
 4. After each pass, re-straighten edges, columns, wall lines and around all protrusions w/ 4' board and smoothed with a magnesium float. (These areas shouldn't have a steel trowel used on them until the body of the floor is being closed with steel trowel blades.)
 5. Second break w/pans should follow a pattern 90° to initial break direction.
 - Apply the third and final application of CONVERGENT SlabArmor™ Starter @ 1200 sqft/gal
 - This application may be applied via sprayers on the riders to avoid walking on the slab.
 - CONVERGENT SlabArmor™ Starter may still be utilized as a "Finishing Aid" to correct surface defects and "Cat-Faces" during this phase of floating and even in the early finishing.
 6. Third break w/pans if needed however the finisher may use their judgement and experience to begin laying the floor down with combination blades.
 7. Combination Blades should be used to close and finish the floor.
 - Blades should be pitched as low as possible 5-8° maximum pitch to minimize edge pressure and ensure the aggregate matrix is consolidated as much as possible and to minimize rolling the aggregate and breaking the cementitious bond.
 8. Use a ride on power trowel for the final finish combo machine that has been kept clean for this purpose. At the time of final burnish, it is very important to make sure any small pieces of concrete that are on the surface are blown off the surface with a leaf blower. Do not finish over these as they'll be noticeable defects. Use the edge of a finish trowel to cut any of these off the surface and then correct, if possible, with the trowel.
 9. After the finishing has been completed and the trowels have moved off the area ensure you can walk on the surface without marring and then apply CONVERGENT SlabArmor™ Closer @ 300 sqft/gal.
 10. After the surface has dried, proceed to saw cut as normal. After saw cuts are completed vacuum the dust out of the cuts and then spray CONVERGENT SlabArmor™ Closer in the cuts.

Additional Finishing Notes

1. Keep blades as flat as possible / 5-8°
2. Never drive trowel from wet to hard.
3. Keep your back to the wet to ensure you don't throw paste on the hard



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