

Flooring Installations using Stauf's R-series Adhesives (701,721,731,741) or Stauf's Moisture Mitigation Systems (ERP-270, ERP-275, ULC-500)

1. A. On New Construction, Slabs should be free of all construction contaminants such as mud, dirt, curing compounds, paint overspray, dry wall mud, oil, grease, etc. Make sure only water based sweeping compounds have been used, since oil based or chemically treated sweeping compounds will contaminate the concrete. Use a Diamabrush (Concrete Prep Tool) or similar device to remove all contaminants and create a concrete surface profile 2 (CSP). Unlike a sander or grinder the Diamabrush does not push the dust back into the pores of the concrete. By using a dust deputy or similar device between machine and vacuum will help prevent the vacuum filter from clogging. Deep vacuum with a HEPA filter vacuum and damp tack the entire floor until completely clean. Do not flood the slab with water as this will create slurry that will penetrate the pores. **Just scraping the floor will not remove all of these so some type of removal equipment needs to be used.**

B. On existing flooring jobs where old flooring has to be removed, all the old adhesive residue must be removed and then go on the step 2 due to the fact that there could be even more adhesive and contaminates deep down in the concrete from previous flooring installs. Elevated levels of inorganic or organic contaminants in concrete can prevent proper adhesion of primers, sealers, and adhesives to the surface of the slab. In order to measure these contaminants, core samples need to be extracted from the concrete slab following the ASTM-C42M-13 procedures. Three core samples should be taken for the first 10,000 SF of subfloor, and one additional core sample for every additional 10,000 SF. Extraction should be done dry if at all possible. Core sizes should be 1-4 inches in diameter and 1-4 inches in length. We have a Testing Company listed on our website under Technical Information #16.
2. Grind, or shot blast, depending on how deep the contaminants are found in the test cores, will determine which method would need to be used to get the concrete to a clean porous substrate. All old adhesives and other bond breakers must be removed from the surface and what is in the concrete. Stauf does not require a certain CSP level, just clean and porous. Once this is done a simple moisture test (ASTM-F3191) to show the concrete is now porous proves the concrete is ready for the adhesive or other product
3. Applying EHS265 Primer to the cleaned concrete using a 3/8" paint nap roller at a rate of 800 – 900 sf. per mixed 2.5 gallon unit will increase the bond strength of the adhesives or the moisture mitigation products.

4. Once the EHS-265 has dried, then apply the adhesive or the Moisture Mitigation product.
5. A. After applying ERP270 over the EHS-265 and it has dried use ACS-210 primer to prime any areas that need to be patched using Stauf's QFF-560 quick feather float cement patching materials.

B. After applying ULC-500 over the EHS-265 once it has dried use a 120 grit sanding screen to smooth any trowel ridges on the ULC-500 and it will also help fill any small voids in the product also. If any further patching is required use ACS-210 primer in those areas and patch using QFF-560 quick feather float.
6. On the R series Adhesives R-701- R-731 – R-741 apply directly over the dried EHS-265 primer and install modular flooring products directly into the wet adhesive, working off the flooring and within 30 minutes of install roll both directions with a 100 lb. roller and then again in an hour to ensure the flooring is down and in contact with the adhesive.
7. Sheet flooring products should be installed using the Moisture Mitigation System, such as, in 5 A.

Please follow directions on each product TDS on Stauf's Website www.staufusa.com and under Installation / Technical Information for any other questions you may have about using any of the Stauf Products or contact either one of our Technical Team Members. Do a simple video of this test being performed and of the bond test of the flooring and adhesive to be used and send to the Stauf technical department. Stauf will write a job warranty to cover materials and labor.

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