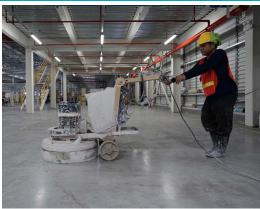


LATICRETE® Resinous FlooringSurface Preparation







Proper surface preparation is vitally important to the successful installation of any coating or overlay project. Always mechanically prepare (profile) the surface as chemical products, if not properly removed or neutralized, can leave a film or residue that can hinder the bond of any coating or overlay product to be installed. The degree of manual preparation required is defined by the International Concrete Repair Institute (ICRI) as Concrete Surface Profile (CSP). This is a measure of the surface roughness which ranges from a CSP-1 (smoothest) to CSP-10 (roughest) and defines the surface profile required to achieve good adhesion and performance of the coating. Failure to properly prepare the surface can lead to poor adhesion or reduced life of the system.

The first step of surface preparation is to ensure the surface is free and clear of any bond breakers prior to application. All dirt, oils, paint, laitance, efflorescence, sealers, curing compounds and any other bond breaking contaminants must be removed down to the full depth of contamination prior to beginning the coating process. If the coating or overlay is to be installed over a concrete surface that was contaminated with oils; it may be necessary to first remove the oils with a degreaser prior to mechanical profile.

Next, make repairs to the substrate by fixing any holes, divot, cracks or other imperfections. Repairs should be done in accordance with the International Concrete Repair Institute (ICRI) standards. Failure to correct these problems could alter the finish and performance of the coating to be installed. Refer to ACI 224.1R (American Concrete Institute) for guidance on evaluation and repair of cracks in concrete.

Finally, mechanically profile the surface to open the pores of the concrete, remove any residual contaminants from the surface, and create a textured surface which increases the mechanical bond with the coating material. Typical profiles for LATICRETE® floor coatings range from a CSP-2 to CSP-5 and are achieved using grinders or shot blast equipment. Refer to the applicable product data sheet for complete profile requirements.

Once the surface has been mechanically profiled, all dust and debris must be removed from the surface. This is typically done using industrial vacuums equipped with HEPA filters. Pass over the surface overlapping at each pass. Repeat 90 degrees from original path again overlapping to ensuring the whole surface is covered. Any newly formed cracks or pitted areas should be address and spot grinding may be necessary to obtain the proper texture. Re-vacuum the surface to remove any dust or debris. A solvent wipe using either Acetone or Xylene on a microfiber cloth is recommended.

Surface Profile Guide

Use this guide to identify the surface profile of your concrete. Surface profiles are defined per the ICRI and range from CSP-1 to CSP-10. A CSP-1 being the indicator for a nearly flat, smooth floor and CSP-10 indicative of an extremely rough floor. The texture and appearance of the profile obtained will vary depending on the concrete strength, the size of aggregate and the finish of the concrete surface. Always refer to the applicable product data sheet for complete surface preparation requirements and procedures.

