

CEM-REZ

Spray Texture



APPLICATION INSTRUCTIONS: CEM-REZ SPRAY TEXTURE

MOISTURE VAPOR EMISSION TESTING

All interior concrete floors are subject to possible moisture vapor emission and/or excessive alkalinity that could ultimately cause coating failure. Prior to application, calcium chloride moisture testing should be conducted according to ASTM 1869-04.

SURFACE PREPARATION

Surface must be clean, dry and profiled prior to installation of primer. Acceptable methods for preparation are shot blasting, diamond grinding or acid etching. If acid etching, follow APF written instructions. Concrete must have a minimum 5-10 mil profile.

APPLICATION OF PRIMER

Apply AP 2300 polymer to the prepared concrete at a rate of 250-300 sq. ft. per gallon. This application should be done with a low pressure pump-up sprayer. Spray AP 2300 liberally onto the substrate and then use a broom or a deck brush to work out any puddles. **It is very important to not leave any puddles.** As soon as the primer is dry enough to walk on, you may begin installation of the overlay. **Overlay must be installed within 8 hours of the primer.**

APPLICATION OF BASE COAT / SCRATCH COAT

Mix two gallons of AP 2300 with one bag of Cem-Rez T or R. Once the material is mixed, immediately pour $\frac{1}{4}$ - $\frac{1}{2}$ of mix out in a ribbon across the area you will be working. It is recommended you use the control joints in the concrete as stopping and starting points. This will make the application much more manageable.

Immediately begin spreading the material in a thin, even layer about 1/16 inch thick. This can be done with a seal-coat squeegee, magic trowel or hand trowel. Special care should be taken to avoid leaving excess material in the control joint because it will only need to be removed at a later point. It is important to never spread out all of the material you have on the floor. You want to keep a mound or pool of wet material and add new material on top of your existing mound. This will eliminate any visible tie-in marks. Failure to use this technique will result in a visible tie-in mark and possible high spots that will have to be removed once the material has cured.

Once your base coat is cured enough to walk on (typically 1-6 hours, depending on curing conditions), do your detail work. This includes removing any high spots and ridges with a coarse rubbing stone and cleaning out all control joints of excess material. This can be done using a trowel turned on its corner while the material is still soft. If the material cures hard, it will be necessary to use a grinder to remove excess material from the joint.

APPLICATION OF SPLATTER COAT

Prior to installing the splatter coat, make sure the bond/scratch coat is completely free from dust and debris. The splatter coat is applied using a hopper gun and a compressor. We recommend you use a $\frac{1}{4}$ " or 8 mm tip on your hopper gun. We also recommend the hopper gun be equipped with an air adjustment valve, allowing you to set your compressor at a higher psi (60-100) and adjust your pressure/spray pattern at the gun. The ideal pressure is between 3-15 psi, depending on the desired spray pattern. Prior to beginning the application process, make sure you have masked off any areas you do not want coated. Masking should be done at least 3 feet high. Mix 1.5 – 1.75 gallons of AP 2300 polymer with one bag of Cem-Rez T. Once the material is mixed, fill the hopper gun approximately $\frac{3}{4}$ " full. It is recommended you use a piece of cardboard to test your spray pattern so you have an opportunity to adjust air pressure and or mix consistency. Begin spraying the splatter coat using a circular motion. You want to have about 75-80% coverage of the base/scratch coat. While one person sprays the splatter coat, a second person wearing spiked shoes will follow behind with a pool trowel to knock it down. The splatter coat should be allowed to set for 5-15 minutes, depending on the conditions prior to troweling. At no point should the person troweling and spraying be more than 10 feet apart to prevent the material from setting up too much before it can be troweled. The person troweling should keep a damp rag with him to periodically clean the trowel. If troweled too soon, it could produce a large flat area referred to as a "pancake." The material must be allowed to set up so that it is not too wet and not dry. The timing of this process is very important to the overall look of the finished job. Should a section of the job turn out unacceptable, it should be scraped up immediately and re-sprayed. Always use control joints as your stopping point.

APPLICATION OF COLOR COAT / FINISH COATS

Once the splatter coat has cured hard (6-12 hours), the surface should be scraped with a 12" pole scraper, ensuring that anything not soundly bonded will be removed. Also at this point, any excess material should be removed from the control joints with a grinder. Once all of the detail work has been completed, completely remove all dust and debris from the surface prior to applying the Cem-Seal (color coat). Apply Cem-Seal at 200-250 sq. ft. per gallon using a 3/4" nap roller or airless sprayer. For residential pool decks, the Cem-Seal may be left as the finish. For applications requiring a higher level of performance, such as commercial pool decks, driveways or walkways, a clear topcoat is recommended such as Polyurethane 250, Polyurethane 100 or Polyurethane 501.