



Fortress XD™ Mixing and Installation Instructions

Substrate Preparation

Fortress XD must only be applied over fully bonded, cured, and clean, and dry CeramycGuard. **Ensure that CeramycGuard is free of all foreign or unsound materials, including oils, detergents, residues, dirt, debris, or any other bond breakers.**

Perform all necessary QC procedures for CeramycGuard prior to any application of Fortress XD. Refer to CeramycGuard TDS and installation instructions.

CeramycGuard may be swept, mopped, power washed, or auto scrubbed with hot water. If water is introduced for cleaning, then CeramycGuard must be allowed to fully dry prior to application of Fortress XD. If incidental contamination occurs due to oil, lubricant, detergent, or introduction of other foreign materials, then these areas must be properly cleaned with all residues from cleaning agents removed.

CeramycGuard must be clean and dry prior to application of Fortress XD. If you have questions, please consult with a Zirconia technical representative.

Mixing and Application Instructions

Mixing:

1. Pour Part A into mixing container and mix with drill and auger for 60 seconds.
2. Add Part C (ceramic wear additives) and Zirconia ceramic slip resistance additive into Part A and mix for 120 seconds, or until additives are fully incorporated.
3. Add the entire contents of Part B (hardener) into mixture and mix for 120 seconds, or until fully incorporated. ***Part B must be used as provided and cannot be adjusted to affect pot life or cure times!***

Application:

1. Verify that ambient and substrate temperatures are between 55°F-85°F, and relative humidity is between 30%-85%.
2. Verify cleanliness of substrate prior to application of any mixed Fortress XD.
3. Remix Fortress XD just prior to application.
4. Using soft-woven shed-free roller cover with 3/8" nap or paint brush, cut in perimeter areas as necessary, prior to coating of main section.
5. Using soft-woven shed-free roller cover with 3/8" nap, apply Fortress XD over intended surface until appropriate build has been achieved. Typical applications are 8-10 mils wet film thickness, but project requirements will vary.
 - a. Fortress XD may be applied by dip and roll or pour and roll methods.
 - b. A notched squeegee or flexible epoxy squeegee may be used to help spread at desired thickness. If a squeegee is used, be sure that additives are not over agglomerating on leading edge; ***take care to ensure even distribution of additives across application area, so that physical properties and slip resistance are uniform.***
6. Take readings with a wet film thickness gauge at regular intervals to verify that specified thickness is being achieved.
7. Perform a final parallel back rolling of each area before moving on, to even out the finish. **All final back rolling should be done in a parallel direction throughout the entire application area.**

8. Shoe spikes must be worn if coated areas need to be traversed before initial cure (hardening) of material.
9. Protect Fortress XD from water for a minimum of 24 hours. Keep coated areas free of foot traffic and equipment until fully cured.
10. Monitor temperature and humidity during cure time to be sure of proper curing conditions. We advise the use of a HOBO air temperature and humidity meter or similar for this purpose.