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PI.728 – Installation Procedures: HERMETIC™ Neat Floor

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GETTING STARTED

Understanding the products for this finish and having experience prior to beginning a project is critical. It is recommended to consult with an Elite Crete Systems Technical Representative before beginning a project to discuss many facts that may impact the outcome.

SURFACE PREPARATION

Although the HERMETIC™ Neat Floor can be applied to substrates other than concrete, these installation procedures pertain only to a concrete substrate.

The concrete must be structurally sound and any repairs in the surface must be made in advance of the neat floor coating. The surface must be clean, dry, and free of any previous sealers or petrochemicals. In general, a concrete surface profile (CSP) of 3 is recommended and this is achieved by means of mechanical abrasion (grind, shotblast, etc.).

APPLICATION PREPARATION

The suggested application temperatures range is from 55°F to 85°F / 13°C to 29.5°C. Temperatures above and below will dramatically effect application ease and/or cure time. Do not apply products at or below 40°F / 13°C or cure can stall or fail, except for E100-RT1™ which can be applied down to 34°F / 1°C. Do not apply a polymer floor coating when the dew point is within 5°F / 3°C of the air temperature.

Carefully inspect the substrate to ensure it is ready to be coated. Look for loose drywall or debris along the bottom edge of the wall and remove if necessary. Key all termination points and around all drains. Honor all moving joints in the concrete slab. Mask off required areas and where the application will be terminated.

Choose a work area for mixing that will not result in contamination of the open containers of materials and protect area from possible splash or spills. Perform a final inventory of required materials, tools, etc. Once the part A and part B components are mixed, they must be applied immediately. Do not allow material to remain in mass.

APPLICATION STEPS

In some cases, E100-VB5™ vapor barrier epoxy and primer will be required to protect against rising moisture vapor. However, understand this is an optional application and the installer needs to determine if it is required. Contact an Elite Crete Systems Technical Representative for assistance in making this determination.

The recommended amount to mix at a time depends on the size of the project, number of applicators, and experience with the products.

1. (Optional) Mix E100-VB5™ Part A and Part B thoroughly for 2 minutes with slow speed drill and mixing paddle. Then add 32 oz. / 1 L of clean potable water to each mixed gallon.

2. Mix the combined products with a jiffy type of similar mixing blade for two full minutes. It is critical to scrape the entire side, bottom, and where the side meets the bottom to ensure the materials are adequately and thoroughly mixed. Failure to mix properly may result in areas of the finish that will not cure properly or perform as well as intended.

3. Pour the mixed E100-VB5™ on the floor in ribbons based on the required square foot of the area to be coated. Do not pour in a puddle or in one isolated area as it will be difficult to move the material over the entire intended area. Use a 3/8” new, clean, delinted, shed free roller to evenly apply the material. Ensure that all areas are coated and free of voids. The target coverage is a rate of 250 to 300 square foot per mixed gallon. Failure to remain within that range may result in product failure. This coat will take 5 to 7 hours before it can be recoated. This coat must be dry before proceeding and the cure time can be affected based on factors such as air temperature, substrate temperature, humidity, etc.

4. Inspect the cured E100-VB5™ surface for debris and/or defects such as air bubbles. If an air bubble or void is found, another full coat or a patch using E100-VB5™ is required to ensure the concrete substrate is completely sealed off.

NOTE: There are multiple options of products that can be used for this finish, including but not limited to: E100-PT4™ Standard or Fast Set, E100-PT1 Standard or Fast Set, E100-UV1™, E100-UL7™, E100-VR1™, E100-FS4™, or SPARTIC-ALL™. This installation procedure is illustrating E100-PT4™ Standard Set for the color coat and AUS-V™, pigmented, with added AGG for the protective top coat, creating a satin or matte finish. If a different product is specified or used, contact a Technical Representative to discuss differences and options ahead of time.

5. Mix the E100-PT4™ part A and part B in a clean mixing pail for two minutes using the same recommendations and tips used in previous sections of this document. Pour the mixed E100-PT4™ on the floor in ribbons. Use a 3/8”, new, clean, delinted, shed free roller to event apply the material. The target coverage is a rate of 100 to 125 square foot per mixed gallon. A notched squeegee can also be used for this step if preferred. Allow the floor to cure. Cure schedule is 8 hours for Standard Set and 4 hours for Fast Set, at 73°F / 23°C, 50% R.H. Varying temperatures and humidity can affect curing schedule.

NOTE: Often times a second coat at the same coverage rate is required or specified. If this is the case, repeat step 5 before proceeding. It is also a common practice to apply an “Orange Peel” finish as the second or last coat rather than AUS-V™ to reduce costs. See document: *PI.124 – Quick Notes – Orange Peel Epoxy Finish*.

6. **Premix the waterborne pigment before adding.** Mix the AUS-V™ part A, part B, waterborne pigment, and AGG in a clean mixing pail for two minutes using the same recommendations and tips used in previous sections of this document. Pour the mixed AUS-V™ into a paint roller tray. Use a 3/8”, new, clean, delinted, shed free roller to evenly apply the material. The target coverage is a rate of 400-500 square foot per mixed gallon. Consult Technical Representative for additional application options.

In all cases, Elite Crete Systems resinous flooring systems must be applied per the instructions of each individual product in the system. Concrete surfaces must be structurally sound, clean, and with proper surface preparation methods.

Elite Crete Systems shall not be responsible or liable for adhesion failures that are the result of poor workmanship, deficient substrates, the presence of alkalinity or salts or expanding aggregates and reinforcements such as rebar, wire mesh, drains, or expansion joint materials.