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## ICF TECHNICAL BULLETIN

### Fossilcrete Vertical Stamp Mix/New Specifications for ICF (Insulated Concrete Forms) substrates. DATE REVISED: March 24, 2008

This Technical Bulletin addresses the installation process for Fossilcrete Vertical Stamp Mix as it applies to ICF (Insulated Concrete Form) substrates incorporating fiber mesh and 3:1 mixing solution\*

**SURFACE QUALITY:** The surface of the ICF foam block must be clean, free of dust, dirt, oils, foreign films or layers, including sun yellowing (that comes off with a swipe of the finger). Remove using a wire brush or rasp.

**SURFACE ELEVATION:** The surface of the ICF foam block must be consistent, with zero elevation difference from block to block. This can be achieved using the Fossilcrete Vertical Mix (**Zero Coat**) or foam rasp.

#### **ZERO COAT MIXING AND APPLICATION INSTRUCTIONS:**

- 1.1 Bond Coat: Using Vertibond Polymer concentrate, apply a liberal amount via brush, roller (if using roller application, use a brush to cover missed areas such as indentions, crevices, etc.) or sprayer to the surface of the ICF block, ensuring to cover areas 6”(minimum) beyond the area of application; let dry until tacky. **DO NOT LET BOND COAT FULLY DRY.** If the bond coat dries, reapply to achieve a tacky surface and continue installation.
- 1.2 Scratch Coat Mixing: In a 5 gallon bucket, add a 40 LB. bag of Vertical Mix to approximately 2 gallons and 24 oz. of 3 parts water: 1 part Vertibond mixing solution. Mix with a variable speed drill and paddle at low speed; do not over mix. **LET SLAKE FOR 5-7 MINUTES; REMIX FOR APPROXIMATELY 30 SECONDS.** (Do not add water. Always use 3:1 Vertibond mixing solution for any adjustment to the mix, **ONE TIME ONLY**). Amount of mixing solution may vary due to changes in climate.
- 1.3 Zero Coat Application: Using the scratch coat mix, apply to the substrate using a trowel approximately 1/8” thick (minimum) or as required to achieve a level surface.
- 1.4 Fiber Mesh Installation: Using 4.5 oz. fiber mesh or equivalent, embed into the middle of the zero coat using a trowel; ensure the mesh does not ‘bottom out’ on the substrate. **DO NOT APPLY ZERO COAT OVER CONTROL JOINTS OR AREAS NEEDING EXPANSION.** Control and expansion joints should be in accordance with ASTM 1063-07.
- 1.5 When using Fossilcrete Vertical Stamp Mix for obtaining zero surface, let material cure for 24 hours prior to beginning the normal installation process of Bond Coat, Scratch Coat and Texture Coat\*\*.

Once the Zero Coat has been established and elevations are consistent, continue with the standard Fossilcrete installation in accordance with the Fossilcrete Vertical Stamping System Technical Data Sheet.

**\*3:1 Mixing Solution**

Mix Vertibond™ concentrate (mix thoroughly) with clean water at a ratio of one (1) part Vertibond™ to three (3) parts water.

For mixing a five (5) gallon bucket: Pour one (1) gallon/one (1) quart (160 oz) Vertibond in a clean bucket, then add three (3) gallons/three (3) quarts of clean water; mix slowly for one (1) minute.

For large batches, pour two (2) – five (5) gallon buckets of Vertibond™ into a clean fifty-five (55) gallon drum. Add six (6) five-gallon buckets of clean water; mix for one (1) minute. Makes forty (40) gallons of mixing solution.

\*\*Due to the increased risk of cracking, Fossilcrete Vertical Stamp Mix is not recommended for smooth trowel or ‘Venetian Plaster’ type finishes.

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