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**TECHNICAL DATA SHEET
FOSSILCRETE VERTICAL CONCRETE TEXTURING SYSTEM**

1. DESCRIPTION

The Fossilcrete Vertical Concrete Texturing System is a patent pending, custom lightweight concrete material that can be applied vertically or overhead up to 2 ½” (6.35cm) thick; typical applications usually range from ½” (1.27cm) thick to ¾” (1.91cm) thick. The system consists of a custom lightweight concrete mix, Vertibond polymer, specially designed vertical stamps, pattern tools and Nature’s Palette coloring system. The Fossilcrete system may be used as a trowel-on or sprayed wall coating on various types of surfaces.

2. USES

The Fossilcrete Vertical Concrete Texturing System is used as an exterior and interior wall covering on: insulating concrete forms (ICFs), steel buildings, OSB/plywood, wire lathe, stucco mesh, cement block, tile, adobe, and concrete walls in addition to 3-D sculptures and murals, showers, and water features such as pool surroundings and waterfalls. Fossilcrete creates a variety of unique textures and patterns ranging from stone to wood and with a durable finish that is freeze/thaw resistant, water resistant, fire resistant after full cure (28 days).

The Fossilcrete system consists of three proprietary components:

- 2.1 VERTICAL STAMP MIX: A proprietary mix of cement, lightweight aggregate and special additives designed specifically for vertical applications at thick sections; can also be applied in thin sections (~ ¼”) (~0.64cm). Available in white.
- 2.2 VERTIBOND POLYMER: A liquid polymer admixture for use as a bond coat (full strength) or as an additive (3 parts water: 1 part polymer) with the Vertical Stamp Mix.
- 2.3 NATURE’S PALETTE COLORING SYSTEM: A waterborne acrylic coloring system that is extremely fast drying and hard; used as a base coat and antique coat.

3. PREPARATION

Substrate must be dry and free of grease, oil, dirt, dust or any other foreign matter that may create a bond breaker. Treat damaged or cracked substrates and address joints. Rough surfaces, if not 100% sound or subject to movement, must be covered with wire lathe or stucco mesh that is anchored securely to the substrate.

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4. MIXING

4.1 -Prepare a solution of 3 parts water: 1 part Vertibond polymer (3:1) mix thoroughly.

4.1.1 –Scratch Coat: In a 5 gallons bucket (18.93kg), add a 40 Lb. bag (18.16kg) of Vertical Stamp Mix to approximately 2 gallons and 24 oz (8.28Lt) of 3:1 solution. Mix with a variable speed drill and paddle at low speed; do not over mix. LET SLAKE) FOR 5-7 MINUTES, AND THEN REMIX FOR APPROXIMATELY 30-45 SECONDS. (Do not add water. Always use Vertibond polymer for any adjustment to the mix). Mixing ratio may vary due to changes in climate.

4.1.2 –Texture Coat: In a 5 gallons bucket (18.93Lt), add a 40 Lb. bag (18.16kg) of Vertical Stamp Mix to approximately 2 gallons and 16 oz (8.04Lt) of 3:1 solution. Mix with a variable speed drill and paddle at low speed; do not over mix. LET SLAKE) FOR 5-7 MINUTES, AND THEN REMIX FOR APPROXIMATELY 30-45 SECONDS. (Do not add water. Always use Vertibond polymer for any adjustment to the mix). Mixing ratio may vary due to changes in climate.

5. INSTALLATION

5.1 Bond Coat

5.1.1 – Bond Coat: Using Vertibond Polymer concentrate (undiluted), 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 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.

5.2 Scratch (Structure) Coat

5.2.1 –Scratch Coat: Using a trowel or pneumatic device, apply a thin scratch coat (~1/16”-1/8” thick) (~0.16cm-0.32cm) directly on the bonded surface; let dry until set. Depending on substrate and ambient temperatures, set time may vary from 30 minutes to a few hours). Remember that all existing substrate control joints must be honored.

5.2.2 –Structure Coat: Used on rough or uneven substrates and frames such as stucco mesh when building trees, animals and various objects. Apply a liberal coat of Vertical material directly on the frame or bonded surface; let dry until set. Depending on substrate and ambient temperatures, set time may vary from 30 minutes to a few hours). Remember that all existing substrate control joints must be honored.

5.2.3 –Waterproof Coat: Used on waterways when construction water features or anything susceptible to submersion where waterproofing is desired. Using a mix consistency that can be applied with a brush, coat waterways, ensuring all void or small cracks are filled; let stand 24 hours. Apply a second waterproof coat; let stand 24 hours.

5.2.4 –Texture Coat: Using a trowel or pneumatic device, apply a uniform thickness of approximately 1/2” (1.27cm) to 3/4” (1.91cm) thick (typical) to the set scratch coat and smooth to consistent thickness. ‘Finishing’ the surface smooth is not necessary.

5.2.5 –Texturing: Begin texturing as soon as the vertical material has sufficiently set to achieve a clean, crisp impression. Using a pump-type sprayer, apply a silicone-free liquid release to the vertical stamping mats and tools and the surface to be textured. Using one hand to secure the mat or tool, firmly ‘squish’ the material into the mat with the other hand, massaging the mat, filling the deep texture. CAUTION: Do not apply in extreme temperatures. Substrate temperature should be between 45°- 95° F (7.2 C – 35 C).

6. COLORING

6.1 Base Coat: Using an air sprayer (HVLP, Cup Gun or Gravity Feed), apply a liberal coat of Nature's Palette to the textured surface; let dry. DO NOT ADD WATER.

6.2 Antique Coat: Nature's Palette antique coat consists of colorant and approximately 10% water; ratio may vary due to temperature and climate. Using an air sprayer (HVLP, Cup Gun or Gravity Feed), apply a liberal coat of Nature's Palette antique coat to the base colored textured surfaces. Using a terry cloth towel, wipe-off to achieve desired antiquing effects. CAUTION: Do not apply Nature's Palette in extreme temperatures. Substrate temperature should be between 45°- 95° F (7.2 C – 35 C).

7. PACKAGING

7.1 Vertical Mix: 40 Lb. bag (18.16kg)

7.2 Vertibond Polymer: 5 Gallon Pail (18.93Lt)

7.3 Nature's Palette: 12 colors available in 32 oz (.907kg) bottles, 1 gallon and 5 gallons pails.

8. COVERAGE

8.1 Vertibond Polymer: ~250 ft² (23.23 m²) per gallon (when used as undiluted bond coat). One 5 gal pail of polymer to 10 bags of mix.

8.2 Vertical Stamp Mix: One 40 Lb bag of mix will cover approximately 12 ft² (1.11483 m²) at 3/4" thickness and approximately 15 ft² (1.39354 m²) at 1/2" thickness.

8.3 Nature's Palette: ~250 ft² (23.23 m²) per gallon.

9. PERFORMANCE CRITERIA

Thickness (typical): 1/2" to 3/4" (1.27cm to 1.91cm)

Compressive Test: 2750 psi

Accelerated Aging Test (ASTM A756 D & E): Unaffected

Freeze-Thaw (ASTM C-67): No breakage/<1% weight loss

Chemical Resistance (ASTM D-2299): 12 reagents...unaffected

Fire Resistance (ASTM E 119)

FOSSILCRETE products are intended for professional use only. Keep away from children. FOSSILCRETE warrants its products to be free of manufacturing defects and comply with current published physical properties when applied in accordance with FOSSILCRETE directions and tested in accordance with ASTM and FOSSILCRETE standards. There are no other warranties by FOSSILCRETE of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. FOSSILCRETE shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty, whether expressed or implied, including any warranty of merchantability or fitness for a particular purpose or from any cause whatsoever. FOSSILCRETE shall also not be responsible for use of this product in a manner to infringe on any patent held by others.

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