

# ArtCrete 801

## Colored Stucco Finish Coat



**DESCRIPTION** • Ultimate performance, polymer modified, fiber reinforced, cement based, colored finish stucco formulated for high adhesion, flexibility, and unparallelled weathering. *ArtCrete 801* is a highly decorative finish coat with infinite textures and application possibilities only limited by the skill and imagination of the mason. *ArtCrete 801* may be applied in 2-20 mm thicknesses on a variety of substrates including fair faced concrete and gray plaster.

**USES** • *ArtCrete 801 Colored Stucco Finish* is suitable for use as a finishing coat on exterior and interior walls and facades ranging from residential to heavy commercial and industrial buildings. Due to its superior adhesion strength and flexibility, it can be applied over a wide variety of bases. *ArtCrete 801* is typically applied as the finish coat in a three coat system, with gray plaster forming the leveling and base coat. *ArtCrete 801* may also be applied directly on precast concrete surfaces.

### ADVANTAGES

- ✓ Superior adhesion.
- ✓ Highly flexible and resistant to cracking.
- ✓ Does not require a key coat of primer.
- ✓ Breathable, allowing humidity to escape.
- ✓ Cement-based; compatible with substrate.
- ✓ Minimum need for maintenance.
- ✓ Extremely durable for all climates.
- ✓ Wide range of application, 2mm to 20mm.
- ✓ Wide choice of colors.
- ✓ Easy to apply and self curing.
- ✓ Unlimited choice of finishing textures.

### PERFORMANCE CHARACTERISTICS

**Weather Resistance:** *ArtCrete 801* has the ability to withstand weathering including resistance to rain and extreme thermal and moisture changes.

**Tensile Strength:** *ArtCrete 801* is able to resist tensile stresses, whether developed internally or externally, due to the material properties' compatibility with a cement-based substrate.

**Crack Resistance:** Due to its high degree of flexibility, *ArtCrete 801* is able to withstand bending of the substrate and to bridge hairline cracks.

**Bond:** *ArtCrete 801* can be applied directly on a variety of surfaces, including non-cement based substrates such as gypsum board and wood panels.

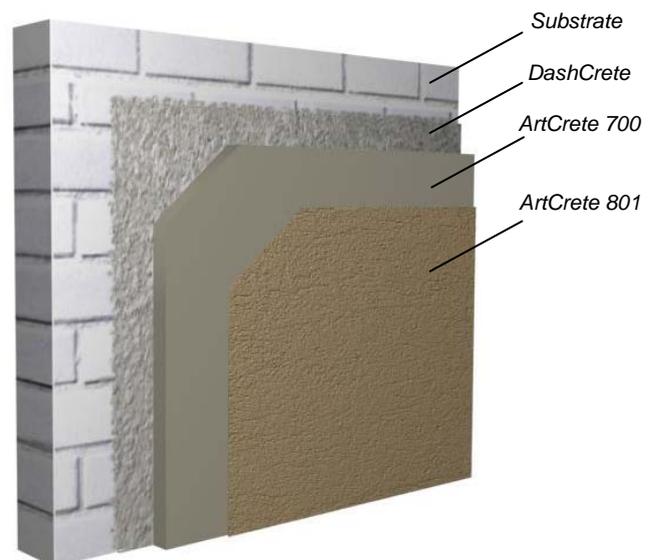
**COVERAGE** • Coverage depends on the tools used for application, texture, surface irregularities and

roughness. Coverage of approximately 10 sq meters per 35 kg bag at 3 mm thickness is dominant.

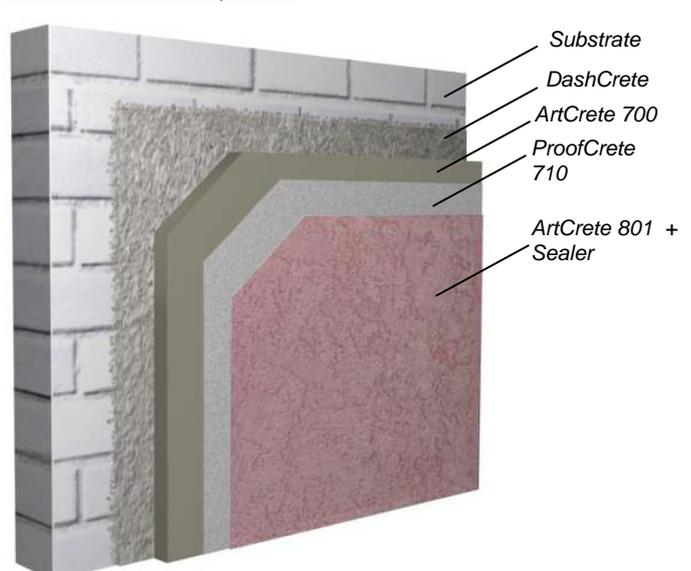
**LIMITATIONS** • Do not mix or apply if ambient temperature is expected to drop below 5°C during installation or in the proceeding 24 hours, or if rain is expected in the proceeding 24 hour period after application. Do not mix or apply when ambient temperature is expected to exceed 35°C. Avoid working in direct sunlight. Temporary protection from weather and other damage must be provided at all times until entire job is completed.

### SYSTEM CONFIGURATION

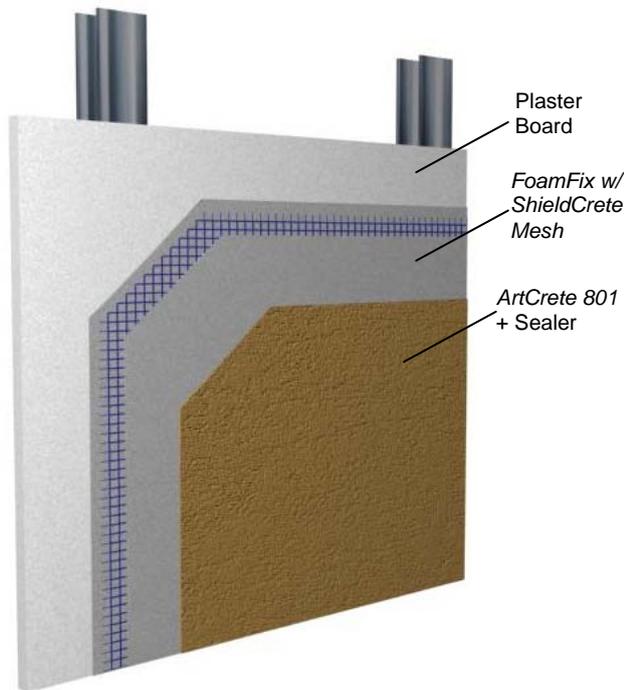
#### ArtCrete 3-Coat System:



#### ArtCrete 5-Coat System:



**ArtCrete Plus System:**



bases should be sufficiently rigid, clean of any surface contamination that may prevent good suction. Dense, smooth surfaces, and those retaining excessive amount of form release agent can cause delamination of the plaster from the base. High gloss, or low absorption surfaces can be made more receptive by sandblasting.

Any painted or coated surfaces should be sandblasted or pressure washed to remove existing coating. The base should be straight, true to line, and plane. Misalignment of substrate can be corrected with *ArtCrete 700 Brown Coat Ready Mix Plaster*, avoiding excessive and different plaster thicknesses within a single panel.

**MIXING** • Mixing should be completed by a mechanical method, preferably with a paddle type mixer. Drill mounted jiffy type mixers can also be used. Always add clean potable water first. Mixing duration should last for 3 to 5 minutes to insure proper color and material dispersion within the mix. Typically, one 35 kg bag will require 8-9 liters of water, though the plasterer can best judge the required consistency depending on the desired finish, while observing its workability and the degree of bonding to the substrate. However, care should be taken not to exceed 10 liters of water per 35 kg bag.

**APPLICATION** • *ArtCrete 801* can be applied by hand or machine to a thickness of not less than 2mm. A maximum of 10mm in a single coat application can be managed efficiently; however, some textures can be applied to thickness of up to 20mm.

A steel trowel, wood float and a sponge float are used in conjunction with a small amount of clean water to produce any texture desired. Anywhere from a smooth steel trowel to a Spanish finish can be attained. *ArtCrete 801* advanced formulation allows for simple fast applications without the requirement of densification. Unlike other plasters, the surface will not slag, crack, or delaminate if not floated.

The textured finish is achieved by scrapping, floating or trowelling while the plaster is still “green”. A uniform approach is essential to achieve an even finish. The application of a coat of plaster should not be interrupted within a façade, the applicator must plan ahead to complete the work up to either a control joint or to a corner of a façade before halting the application for any reason. When using a plaster machine, the plaster is applied in a continuous operation and finished manually to the specified thickness. Texture is controlled by the air pressure, the opening of the orifice, and the distance of the nozzle from the surface.

**Installation on Block Work:** For block work, *ArtCrete 3-Coat System* is the most suitable configuration. As shown in the illustration above, *DashCrete* is first

**TECHNICAL DATA** • Complies with EN 998 requirements for wall render finish.

Test	Criteria	Result
Flexural Strength EN 12808-3:2002 ASTM C 348 7 days 28 days	≥ 3.5 N/mm <sup>2</sup> n/a	3.5 N/mm <sup>2</sup>  3.2 N/mm <sup>2</sup> 6.6 N/mm <sup>2</sup>
Compressive Strength EN 12808-3:2002 ASTM C 109 3 days 7 days 28 days	≥ 2.5 N/mm <sup>2</sup> n/a	9.7 N/mm <sup>2</sup> 7.0 N/mm <sup>2</sup> 13.4 N/mm <sup>2</sup> 18.3 N/mm <sup>2</sup>
Abrasion Resistance (EN 12808-2:2002)	≤ 2,000 mm <sup>3</sup>	276 mm <sup>3</sup>
Shrinkage Test - 28 days (EN 12808-4)	≤ 2 mm/m	1.26 mm/m
Water Absorption (EN 12808-5) After 30 minutes After 240 minutes	≤ 5 g ≤ 10 g	2.33 g 5.08 g
Tensile Adhesion (EN 998)	≥ 0.3 N/mm <sup>2</sup>	0.58 N/mm <sup>2</sup>
VOC (w/A-Z Penetrating Sealer WB), USEPA 24	n/a	0 g/L
Ignitability, BS EN ISO 11925-2	n/a	Class E (non ignitable)

**SURFACE PREPARATION** • *ArtCrete 801* is very compatible with concrete masonry and new concrete and can be applied on an array of bases: block, brick, plaster, gypsum board, and wood panels. All

installed on a block work or concrete wall for a keying coat, followed with a leveling coat of *ArtCrete 700 Pre-Blended Plaster* in 10-20 mm thickness. *ArtCrete 801* is then installed as the finish coat in thickness to achieve the desired finish.

For additional protection against moisture and efflorescence problems, *ArtCrete 5-Coat System* is the highest performing system. An additional layer of *ProofCrete 710 Single Component Flexible Cementitious Waterproofing* provides an isolation layer between the finish coat and the substrate.

Installation on Plaster Board: For installation on marine grade gypsum board or cement board, follow the *ArtCrete Plus System* illustrated above. Install a base layer of *FoamFix ST* with fiberglass mesh such as *ShieldCrete MD* 145 g mesh or *ShieldCrete SD* 160 g mesh. It is recommended to pre-treat board joints either with an extra layer of *FoamFix* and fiberglass mesh or another compatible system.

Installation on Field Mixed Plaster: If a 3-coat system has already been installed and the quality of the gray plaster is questionable, installing a base layer of *FoamFix ST* with an embedded fiberglass mesh as detailed in the *ArtCrete Plus System* may help reduce the chances of small cracks in the gray plaster from reflecting onto the *ArtCrete 801* finish coat. The *FoamFix* layer also acts as a good isolation layer that can reduce efflorescence problems from appearing in the finish coat.

**CURING** • *ArtCrete 801* is self-curing designed to be air cured only. Moist curing should be applied to the base coat only where applicable, and continued until the application of *ArtCrete 801*. The use of *A-Z 100 Curing Agent* is recommended when applying on surfaces permanently in contact with water.

**SEALING** • In order to avoid staining of the render from rain runoff water or other sources and to facilitate easy cleaning, it is highly recommended to seal the render once it has fully set. The render may be sealed with any grade of *A-Z Penetrating Sealer*, or *A-Z HydroSeal* for more demanding applications. On surfaces permanently in contact with water, the use of *A-Z HydroSeal* is recommended.

**CLEANING** • Clean all tools and equipment promptly with clean water.

**STORAGE** • Keep material covered and off the ground to prevent exposure to moisture. Store in a dry area. When stored at specified conditions in original unopened packaging, shelf life is 12 months from date of purchase.

**SAFETY PRECAUTIONS** • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. Portland cement and silica based products present health hazards. Irritating to eyes and skin. Use in adequate ventilation and do not breath dust. Contains silica aggregates (quartz). May cause delayed lung injury (silicosis). Use neoprene gloves and a dust mask when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water. Skin – Wash with soap and water. Inhalation – If experience difficulty breathing or if inhaled, move to fresh air. If symptoms persist, seek medical attention.

**PACKAGING** • 35 kg paper bags.

**SUGGESTED SHORT FORM SPECIFICATIONS** • All architectural surfaces designated in the plans or specifications as having an integrally colored stucco finish shall have CREATIVE CONCRETE CONCEPTS ArtCrete 801™ installed in accordance with manufacturer technical data sheet and written instructions in the ArtCrete [3-Coat, 5-Coat] System. The dash coat shall be CREATIVE CONCRETE CONCEPTS DashCrete™ Splatter Dash Coat applied over the block work substrate in accordance with manufacturer technical data sheet and instructions. The leveling brown coat shall be CREATIVE CONCRETE CONCEPTS ArtCrete 700™ Factory Blended Plaster applied in [ ] mm thickness and cured in accordance with manufacturer technical data sheet and instructions. [For 5-coat system only: Waterproofing coat shall be CREATIVE CONCRETE CONCEPTS ProofCrete 709™ Single Component Cementitious Waterproofing Coat applied in accordance with manufacturer technical data sheet and instructions]. The finish coat shall be CREATIVE CONCRETE CONCEPTS ArtCrete 801™ Colored Stucco Finish Coat applied in [ ] mm thickness in required texture and color [select from CCC Standard Color Chart]. All finished surfaces must be sealed with CREATIVE CONCRETE CONCEPTS [A-Z Penetrating Sealer WB/LS/SB/SMK™, A-Z HydroSealer™] in accordance with manufacturer technical data sheet and instructions. All products shall be manufactured by CREATIVE CONCRETE CONCEPTS, Sharjah, UAE or Amman, Jordan; info@tex-crete.com.

Creative Concrete Concepts

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