

**Decorative Lightweight Plaster**

**DESCRIPTION** • *ArtCrete 901 Decorative Lightweight Plaster* is a polymer-modified, fiber reinforced, cement based lightweight render containing light weight aggregates. The advanced formulation of *ArtCrete 901* is behind its unique and unparalleled combination of physical properties: lightweight, high compressive strength, extended carving time (up to 48 hours), outstanding workability and high chemical and moisture resistance. *ArtCrete 901* is available in forty standard colors.

**USES** • *ArtCrete 901's* fine granular texture and superb workability offer the skilled technician infinite possibilities to create heritage renders and polished render finishes. Installed in 5-10 mm thickness over a scratch finished gray plaster, *ArtCrete 901* may be used to decorate interior and exterior facades with attractive and unique heritage finishes. *ArtCrete 901* is also an excellent choice for stamped render finish when used in combination with CCC texturing skins and release agents for simulating the look of slate, brick, wood, and ancient carvings on walls.

*ArtCrete 901's* lightweight, extended carving time, and high compressive strength make it the optimum render for faux rockwork, waterfalls, theme parks, and concrete furniture. The unparalleled extended carving time allow the addition of a high level of detail and realism to faux rockwork. *ArtCrete 901* may be installed in 5-10 mm thickness over a light scratch coat as the final finish coat in a faux rockwork system, or installed over a rough or dash coat in thicknesses over 10 mm to add a higher level of realism. In addition, combining the texturing and staining effects of *PaveCrete 300 Antique Release Agent* with CCC texturing skins, *TopCrete 220 Skim Coat*, and *ChemStain* allows the creation of rockwork formations impossible to distinguish from the real thing.

*ArtCrete 901's* formulation endow it with high chemical resistance and moisture resistance, make it the ideal finishing plaster for swimming pools and waterfalls.

**ADVANTAGES** •

- ✓ Lightweight – will not sag on vertical applications up to 100 mm thick.
- ✓ Extended working time of up to 48 hours.
- ✓ Outstanding water resistance.
- ✓ Good thermal & acoustic insulation properties.
- ✓ Easy to deliver, shape, and carve.
- ✓ Polymer modified and fiber reinforced.
- ✓ Unparalleled workability.
- ✓ Prolonged pot life.

**TECHNICAL DATA** •

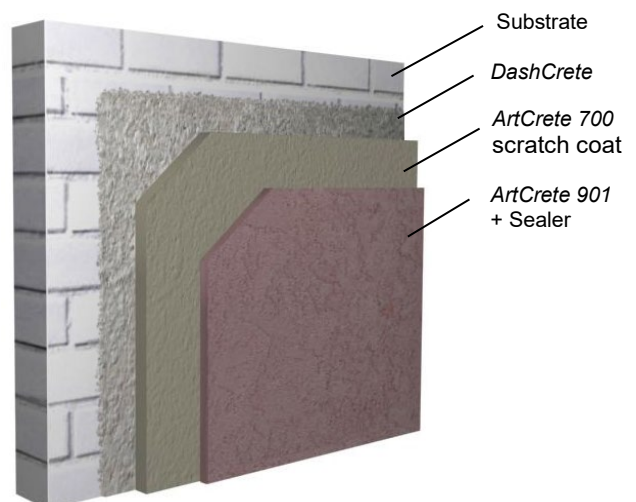
Compressive Strength (ASTM C 109) 3 days 7 days 28 days	10.3 N/mm <sup>2</sup> 14.3 N/mm <sup>2</sup> 18.34 N/mm <sup>2</sup>
Flexural Strength (ASTM C 348) 3 days 7 days 28 days	3.0 N/mm <sup>2</sup> 4.3 N/mm <sup>2</sup> 5.1 N/mm <sup>2</sup>
Tensile Adhesion (min. required 0.3 N/mm <sup>2</sup> )	0.65 N/mm <sup>2</sup>
Water Absorption Coef. – EN ISO 15148 (24 hour immersion)	0.05 Kg/m <sup>2</sup> ·h <sup>1/2</sup>
Chemical Resistance (ASTM D 543:95) 5 ppm Sodium hypochlorite, Sodium hypochlorite, 7 days	Pass
Salt Spray Resistance ASTM B 117, 150 hrs. 5% NaCl	Pass
Density	1.46 kg/l

**COVERAGE** • Coverage depends on the tools used for application, texture, surface irregularities and roughness. Coverage is approximately 1.1 sq meters per 20 kg bag at 10 mm thickness.

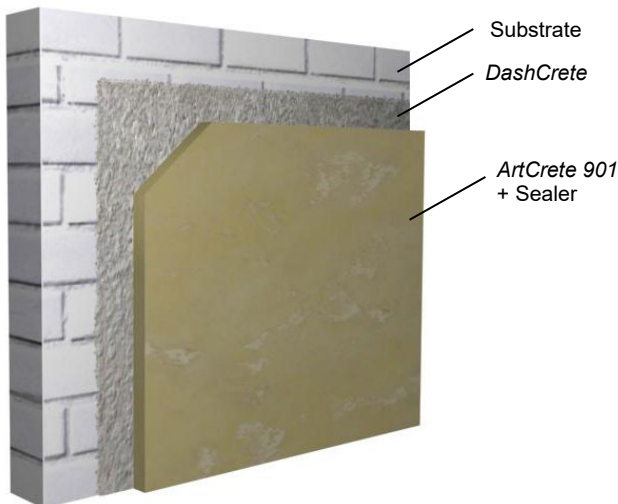
**LIMITATIONS** • Do not mix or apply if ambient temperature is expected to drop below 5°C during installation or in the proceeding 24 hours, or if rain is expected in the proceeding 24-hour period after application. Do not mix or apply when ambient temperature is expected to exceed 40°C. Avoid working in direct sunlight. Temporary protection from weather and other damage must be provided at all times until entire job is completed.

**SYSTEM DETAIL** •

Installation on Scratch Coat Gray Plaster:



### Installation on a Dash Coat:



**SURFACE PREPARATION** • *ArtCrete 901* can be applied on an array of bases. It is very compatible with old concrete, masonry, and new concrete. All 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 de-lamination of the plaster from the base.

**Block Work:** for direct application on block work, *ArtCrete 901* might have to be applied in thicknesses of 10 mm or higher in order to level the undulations in the substrate. A coat of *DashCrete Splatter Dash Coat* or *FoamFix ST Base Coat* finished in a rough scratch coat using a notched trowel would be sufficient to insure good mechanical keying.

**Gray Plaster:** *ArtCrete 901* may be applied in as little as 5 mm over a light scratch or floated gray plaster (brown coat) as a finish coat. For field mixed plaster or plaster of questionable quality, a coat of *FoamFix ST* with embedded fiberglass mesh is recommended to isolation the finish coat from efflorescence or small cracks in the substrate.

**Cement/Plaster Board:** apply a coat of *FoamFix ST* with *ShieldCrete* fiberglass mesh embedded into the base coat in order to unify absorption and bridge the joints in the boards; it is recommended to apply the reinforcing mesh over the entire surface rather than just the joints in order to provide the maximum tensile strength. For thicknesses over 5 mm, the *FoamFix* layer should be finished with a notched trowel to provide good mechanical keying; choose a notched trowel of the necessary depth to produce a roughness in the scratch coat that is suitable for the thickness of application.

**Faux Rockwork and Waterfalls:** if *ArtCrete 901* is to be applied only as a finish coat in 10 mm or less, it may be applied directly on the light scratch-finished base of *ArtCrete 700 Brown Coat Ready Mix Plaster*

spray applied on the rebar and wire mesh structure or the waterproofing coat such as *ProofCrete 710 Cementitious Waterproofing Coating*. For larger thicknesses, *ArtCrete 901* must be applied on a coat of *DashCrete* or rough scratch finished *FoamFix ST* for good mechanical keying.

**MIXING** • Mixing should be completed with a paddle type mixer. Always add water first before stucco to prevent lumps in the plaster mix. Mixing duration should occur within 3 to 5 minutes to insure proper color and material dispersion within plaster. Use average 7 Liters of clean water per 25 kg bag, depending on desired consistency appropriate for the method of application and required finish, while observing its workability and the degree of bonding to the substrate.

**APPLICATION** • Whether *ArtCrete 901* is applied by hand or machine, sufficient force must be used to develop full and intimate contact with the substrate. The thickness of the plaster is set by the use of screeds and grounds filled with mortar, or randomly placed when shaping rock and figures. A rod can be used to even the surface, the rod can bear on the screed or contact the ground and moved over the surface, cutting off high spots and showing hollow areas. Hollow areas can be filled again and rodded. *ArtCrete 901* can be applied in wide ranging thicknesses: up to 50 mm in a single layer when applied by hand, and up to 100 mm in a single layer when applied with a spray machine. In multiple consequent applications *ArtCrete 901* can be applied in thickness up to 200 mm.

**FINISHING** • *ArtCrete 901* can be finished and textured in many ways from smooth trowel finish to rock formation. The use of texture mats along with *PaveCrete 300 Antique Release Agent* can clone the look of antiqued rock formations almost impossible to distinguish from the real thing. *TopCrete 220 Skim Coat* can be used to antique, tint, or color a hardened application to simulate the look of wood, trees, and cracks. *CCC ChemStain* may also be used to add antiquing and aging effects to the surface. Knives, trowels, and edgers can be used to carve textures, cracks, or artistic drawings up to 48 hours after initial application. Give the plaster sufficient time to set before commencing carving work. Enhanced workability, delayed setting time, ease of delivery, and superior sag-resistance allow the artist to further widen his imagination and skills to produce finishes otherwise not possible with conventional plaster.

**CURING** • *ArtCrete 901* is self-curing and designed to be air cured only. The use of *A-Z 100 Curing Agent* is recommended when applying on surfaces permanently in contact with water.

**SEALING** • Sealing of ArtCrete 901 is not required but is recommended to protect against staining from rainwater runoff and other contaminants. The use of CCC topical sealers such as A-Z Ultra Sealer, A-Z Super Sealer, A-Z Mega Sealer, and A-Z HydroSeal will also help enhance and bring out the antiquing color effects. For wall render applications, A-Z Penetrating Sealer or A-Z HydroSeal is highly recommended to prevent moisture from penetrating the surface without disrupting the breathability of the surface. For faux rockwork, multiple applications of highly diluted coats of CCC topical sealers will provide additional protection without creating an artificial looking coating layer. On surfaces permanently in contact with water, the use of A-Z HydroSeal is highly 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-based products present health hazards. Irritating to eyes and skin. Use in adequate ventilation and do not breath dust. 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** • 20 kg paper bags.

### **SUGGESTED SHORT FORM SPECIFICATIONS** •

As a heritage render finish on walls: All architectural surfaces designated in the plans or specifications as having an integrally colored stucco finish shall have CREATIVE CONCRETE CONCEPTS ArtCrete 901™ Decorative Lightweight Plaster installed in accordance with manufacturer technical data sheet and written instructions in the ArtCrete [2-Coat, 3-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. [For 3-coat system only: The leveling brown coat shall be CREATIVE CONCRETE CONCEPTS ArtCrete 700™ Factory Blended Plaster applied in [ ] mm thickness,

finished to a scratch texture, and cured in accordance with manufacturer technical data sheet and instructions]. [Optional: Waterproofing coat shall be CREATIVE CONCRETE CONCEPTS ProofCrete 710™ Single Component Cementitious Waterproofing Coat applied in accordance with manufacturer technical data sheet and instructions]. The finish coat shall be CREATIVE CONCRETE CONCEPTS ArtCrete 901™ 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 HydroSeal™] 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.

As faux rockwork plaster: All architectural surfaces designated in the plans or specifications as having a faux rockwork finish shall have CREATIVE CONCRETE CONCEPTS ArtCrete 901™ Decorative Lightweight Plaster system installed in accordance with manufacturer technical data sheet and written instructions. The rebar and wire mesh structure shall be coated with a base layer of CREATIVE CONCRETE CONCEPTS ArtCrete 700™ Factory Blended Plaster applied in [ ] mm thickness and cured in accordance with manufacturer technical data sheet and instructions. Waterproofing coat shall be CREATIVE CONCRETE CONCEPTS ProofCrete 710™ Single Component Cementitious Waterproofing Coat applied in accordance with manufacturer technical data sheet and instructions. A dash coat of CREATIVE CONCRETE CONCEPTS DashCrete™ Splatter Dash Coat shall be applied in accordance with manufacturer technical data sheet and instructions, followed by a finish coat of CREATIVE CONCRETE CONCEPTS ArtCrete 901™ applied in [ ] mm thickness and color [select from CCC Standard Color Chart]. The finish coat shall be stamped with CCC texturing skins and/or carved to required finish simulating rockwork. All finished surfaces must be sealed with CREATIVE CONCRETE CONCEPTS [A-Z Penetrating Sealer WB/LS/SB/SMK™, A-Z HydroSeal™, A-Z Super Sealer™, A-Z Ultra Sealer™, A-Z Mega Sealer™] 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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