ArtCrete 901

Decorative Lightweight Plaster

DESCRIPTION

ArtCrete 901 Decorative Lightweight Plaster is a polymer-modified, fiber reinforced, cement based lightweight render containing lightweight aggregates. The advanced formulation of ArtCrete 901 is behind its unique and unparalleled combination of physical properties: lightweight, high compressive strength, extended carving time (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 finishes. ArtCrete 901 is also an excellent choice for stamped render finish when used in combination with CCC texturing skins and PaveCrete 300 Antique Release Agent 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 scratch coat as the final finish coat in a faux rockwork system, or installed over a 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength (ASTM C 109)</td>
<td></td>
</tr>
<tr>
<td>3 days</td>
<td>10.3 N/mm²</td>
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<tr>
<td>7 days</td>
<td>14.3 N/mm²</td>
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<tr>
<td>28 days</td>
<td>18.34 N/mm²</td>
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<td>Flexural Strength (ASTM C 348)</td>
<td></td>
</tr>
<tr>
<td>3 days</td>
<td>3.0 N/mm²</td>
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<td>7 days</td>
<td>4.3 N/mm²</td>
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<tr>
<td>28 days</td>
<td>5.1 N/mm²</td>
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<tr>
<td>Tensile Adhesion (min. required 0.3 N/mm²)</td>
<td>0.65 N/mm²</td>
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<tr>
<td>Water Absorption Coef. – EN ISO 15148 (24 hour immersion)</td>
<td>0.05 Kg/m²·h ³/²</td>
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<tr>
<td>Chemical Resistance (ASTM D 543:95) 5 ppm Sodium hypochlorite, Sodium hypochlorite, 7 days</td>
<td>Pass</td>
</tr>
<tr>
<td>Air-Dry Density</td>
<td>1.40 g/cm³</td>
</tr>
</tbody>
</table>

SYSTEM DETAIL

Installation on Scratch Coat Gray Plaster:

Installation on a Dash Coat:
by hand or machine, sufficient force must be used to workability and the degree of bonding to the desired consistency, while observing its color and material dispersion within plaster. Use 5.5-L and maintain a smooth consistency. Mixing duration should occur within 3 to 5 minutes to ensure proper color and material dispersion within plaster. Use 5.5-9.5 Liters of clean water per 25 Kg bag, depending on desired consistency, 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. 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

Sealing of ArtCrete 901 is not required but is recommended to protect against staining from rain water 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 breathe 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 ● 25 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 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™, 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.

As a 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.