

Textstōn Terra™**Plaster and Stucco Finish**

Textstōn Terra™ is a high-quality finish for interior and exterior plaster and stucco. It is integrally pigmented and contains specially-graded fine aggregates which enable it to replicate the patina of “Old-World” stuccos, create beautiful textures, or express contemporary design flair. It can also be used as a lightweight and economical faux alternative to natural stone veneer. Terra contains a unique blend of polymer admixtures and fibers which contribute to superb adhesion, workability, water repellency and durability.

Environmental Benefits: *Zero VOC emissions. Non Toxic.*

Basic Use: Use Terra as a plaster or stucco finish coat for walls, ceilings, soffits and special decorative features. It is recommended for both interior and exterior environments and is compatible with most plaster base coats as well as gypsum board, concrete, masonry and other substrates.

Composition: Terra is a dry powdered formulation and is ready for use when mixed with water. It contains:

Portland cement: White cement is used to enhance the intensity of Terra's coloration. [ASTM C 150]

Hydrated Lime: Lime works in conjunction with cement to improve Terra's strength, water resistance, and workability [ASTM C 206].

Silica Sand: Specially graded to optimize Terra's density and strength and to contribute to the product's aesthetic appeal, the sand in Terra is 0.2 to 0.6 mm in diameter, round, dustless, oven dried, free from salts, and has a mohs scale hardness of four for enhanced wear resistance. [ASTM E-11]

Polymers: Acrylic polymers in Terra improve the product's adhesion, cohesion, and flexural strength and contribute to improve resistance to cracking.

Fibers: Greater mechanical anchorage. Superior adhesion and cohesion. Crack and shrinkage resistance. Smooth and Fiber free surface.

Water Repellent: Stearate-based additive helps resist water penetration.

Integral Pigments: The mineral-oxide pigments in Terra comply with ASTM C979 to assure permanent, fade-resistant coloration.

Colors: Terra is offered in more than forty standard colors and can be custom colored to meet special design requirements. Pick a color from any leading paint manufacturer, or send us a swatch of the fabric, tile, or stone you are using and we will match it.

Sizes and Coverage: Terra 23kg covers approximately ~60-80 sqft per 2.5 coats depending upon thickness and texture applied. It is available in recyclable paper sacks in the following sizes:
23 kg (50.7 lbs., approximately 5 gallons), 4.6 kg (~1Gal).

TECHNICAL DATA

Applicable Standards:

System Performance: Terra outperforms finish coats installed in accordance with ASTM C926 – Application of Portland Cement-Based Plaster.

Quality Assurance: Terra is produced in a facility certified under ISO 9002 – *Quality Systems – Model for Quality Assurance in Production, Installation and Servicing.*

Surface Burning Characteristics: Terra provides a Class A finish with 0 Flame Spread and 5 Smoke Density per ASTM E84 - *Surface Burning Characteristics of Building Materials* when applied over inorganic reinforced cement board.

INSTALLATION

Substrates: Apply Terra over substrates that are clean, cohesive, free of contamination and as follows:

Plaster Brown Coat: Apply brown coat in accordance with ASTM C926 - *Application of Portland Cement-Based Plaster* and Portland Cement Association's *Portland Cement Plaster (Stucco) Manual*. Float brown coat to produce smooth and level substrate to minimize the amount of finish coat required. Pay particular attention to moist curing requirements to minimize shrinkage cracking; cure at least seven days (21 days recommended) prior to application of finish coating. For additional resistance to cracking, a fiber mesh can be imbedded into brown coat or the first coat of a two coat Terra application. Apply two coats of TexPrep Primer.

EIFS Base Coat: Comply with exterior insulation and finish system manufacturer's instructions. Float the EIFS surface to a fine sand-finish to create a mechanical key. Apply TexPrep Primer. Add Textstōn 7350 or RPA according to manufacturer instructions.

Gypsum Drywall: (Interiors Only) Drywall shall be taped and then sanded or floated. Provide Level Three or better surface in accordance with Gypsum Association's GA-214 - *Recommended Levels of Gypsum Board Finish* to assure that substrate defects are not visible through plaster.

Concrete and Masonry: Allow concrete and mortar to cure 28 days prior to finishing. Concrete should be free of form release agents that could interfere with adhesion of Terra. Sand glossy surfaces. Mortar joints should be flush.

Trim and Fasteners: At exterior and wet areas, use corrosion resistant materials for expansion and control joints, corner beads, flashings and other trim and fasteners.

Existing Substrates: Remove deteriorated substrates and patch in acceptable manner. Oily or glossy surfaces and oil-based paints should be lightly sanded. Wash with trisodium phosphate diluted as indicated on product label. Rinse, neutralize and wipe dry.

Leveling: Remove projections and, if required, fill depressions with leveling coat. Leveling coat can be Textstön Terra which has an excellent filling power. EIFS cement base coat such as BASF Senergy can also be used, or factory-bagged plaster mix mixed with a liquid acrylic such as Textstön™ 7350 diluted 1:10 with water, or can be a blend of one part Portland cement with 2 to 2 ½ parts washed and bagged sand and mixed with Textstön™ 7350 diluted at rate of 1:10 with water. **All basecoats should be finished with a fine sand-texture finish to create a mechanical key bond.**

Preparatory Work:

Masking: Mask and protect adjacent surfaces.

Prime: Primer is required over gypsum board, MDF wood and other substrates with uneven suction absorption, and to improve adhesion to smooth substrates, use of type compatible with substrate. Use Textstön **TexPrep Primer™**: A translucent-white, tintable, liquid- penetrating primer-sealer/undercoat. It is alkali-resistant and specifically formulated for Textstön plasters. TexPrep penetrating Primer sealer is an acrylic, water-based interior and exterior penetrating primer sealer that equalizes the suction of the substrate. It features hollow ceramic spheres that create suction and a mechanical bond.

Dampen Surface: Immediately before applying Terra, dampen brown coat, concrete, masonry and other porous substrates with water.

Mixing: Add small amount of clean, potable water and mix with drill mixer until homogeneous paste consistency is reached. Let material rest for two to three minutes. Then add sufficient water to yield consistency suitable for application and mix again. Do not re-temper or remix. Mix with clean tools and in a clean bucket.

Material to be used in a first coat or one coat system over EIFS base coat, wood, metal, plastic, etc. should also be mixed with Textstön 7350 Additive or RPA additive, according to manufacturer's instructions.

General:

Apply finish in continuous application, free from cold joints, scaffold lines and other deficiencies detrimental to appearance and performance. Continuously apply in one general direction without allowing coating to dry at edges; keep a wet edge. If full width of wall cannot be covered at one time, terminate applications at natural divisions of surface such as control joints or corners. Do not bridge expansion or control joints.

Use high-quality trowels and floats of types required to produce intended results. Textstön offers a full complement of specialty plaster tools.

Many creative finishes can be produced with Terra. Consider the following a starting point for your imagination.

Sand (Float) Finish – One Coat System: Evenly apply 1/16 inch minimum thickness using stainless steel trowel to create smooth surface. As soon as material has set sufficiently, press and abrade with damp sponge float and large circular motions to obtain non-directional texture of exposed sand aggregates.

Suede (Plastic Trowel) Finish – Two Coat System:

First Layer: Evenly apply 1/16 inch minimum thickness using stainless steel trowel to create smooth surface. Float, if necessary, to eliminate high points and ridge marks.

Second Layer: When first layer is firm and dry to eye, dampen slightly. Apply 1/16 inch thickness in same manner as first. When set, switch to plastic trowel and press in circular movement to obtain blend of open and closed areas and suede-like surfaces.

Smooth (Stainless Steel Trowel) Finish – Two Coat System:

First Layer: Evenly apply 1/16 inch minimum thickness using stainless steel trowel to create smooth surface. Float using a sponge float, if necessary, to eliminate high points and ridge marks.

Second Layer: When first layer is firm and dry to eye apply 1/16 inch thickness using stainless steel trowel, pool trowel, or other non-blackening metal trowel. Use water sparingly to dampen surface and continue troweling until smooth, closed surface is obtained. Avoid over troweling and formation of black "veins".

Blended Colors: A more variegated effect can be obtained by blending several colors together. Apply daubs of each color of plaster to hawk simultaneously and work together to obtain random yet consistent pattern.

Custom Finishes: Many special effects can be produced with Terra. For example, surfaces can be scored to simulate masonry joint lines. Stencils can be used to apply ornamental motifs. And it can be applied over moldings or other sculptural elements to create relief.

Rather than trying to describe the specific technique to be used to achieve a custom finish, it is usually more convenient to specify an approved sample board or mock-up as a standard to be matched for a project. Contact Textstōn for help developing custom finishes.

Color Wash: For additional design expression, use Textstōn Glaze, a water-based glazing liquid. Allow Terra to dry 48 hours before color washing. Dampen surface slightly before applying color wash, then follow manufacturer's instructions.

Sealer: Apply Textstōn SDS7.5 or SDS15 Sealer. Consult manufacturer for instructions.

Allow Terra to dry 24 to 72 hours before applying sealer. Apply according to sealer manufacturer's instructions. Protect against overspray. Apply two to four coats as desired; allow first coat to dry before applying second coat. Excess sealer can form a white residue if not removed promptly. Follow manufacturer's instructions.

Clean-Up: Remove masking. Remove plaster splatters using methods that will not damage surfaces.

Precautions:

Delivery, Storage and Handling: Deliver in manufacturer's unopened packages and store in dark and dry place at between 45 and 95 degrees F. Use OSHA compliant eye protection. Wear a respirator when mixing, sanding or scraping. Provide well-ventilated work areas. Avoid prolonged skin contact. Do not apply if rain or freezing temperatures are expected within 24 hours; protect from rain for 48 hours after application. Do not apply over wet or frozen surfaces. Do not apply when temperature is less than 45 degrees F or more than 95 degrees F. Keep away from children. Use within six months after purchase. See MSDS and product label.

Appearance Tolerances: Appearance may vary depending upon application and field conditions. Color cards and product samples represent approximate colors and textures only. Final approval should be based on contractor-prepared samples or mock-ups showing actual materials and workmanship proposed for use. Like all exposed plaster finishes, mottling and variations in hue and appearance are normal and a part of Terra's aesthetic appeal.

AVAILABILITY AND COST

Availability: Textstōn products are available from distributors throughout North America. Contact Textstōn or visit the website for referrals to local sources.

Cost: Contact distributors for pricing information.

WARRANTY

Textstōn expressly warrants its products to be fit for the ordinary purpose for which they are intended for a period of five years from date of installation when applied and used in accordance with manufacturer's instructions within six months of purchase.

Textstōn's liability under this warranty is limited to the replacement of products found to be defective or to the refund of purchase price to original purchaser. Textstōn reserves the right to require proof of purchase and to inspect installations prior to resolving claims made under this warranty. This limited warranty is exclusive and in lieu of all other warranties either written, oral or implied, and expressly excludes liability for consequential damages.

MAINTENANCE

Cleaning: Remove dust and loose dirt, then, wipe with a clean damp cloth. When necessary, surfaces may be cleaned with mild detergents or proprietary cleaning agents together with gentle scrubbing or low-pressure water washing. Mineral spirits or acetone can also be used; observe proper safety procedures when using solvents. Clean vertical surfaces from the bottom up. Thoroughly rinse exterior surfaces with clean water after cleaning. At interior surfaces, wipe off cleaning agents with a damp rag followed, if necessary, by a dry rag. Efflorescence, a white powdery deposit

that can form on building surfaces, should be removed as soon as practical using water and a soft bristle brush or nylon scouring pad. Test cleaning products and techniques in an inconspicuous location before proceeding and comply with manufacturer's instructions.

Inspection: As with any building material, finishes should be periodically examined to assure that surfaces and substrates are in good condition. Examine joints, sealants, flashings, trim and other locations that could permit water to enter the building. Conditions that could produce stains – such as water run-off from roofs or ledges washing down face of a wall – should be corrected.

Since Terra is a finish coat, cracks that appear in their surface are probably due to cracking within the substrates to which they are applied; extensive cracking could indicate excessive building settlement or movement and should be examined by a qualified building professional.

Blemishes: In many instances, scratches, scuff marks and stains that do not respond to ordinary cleaning techniques may be removed by lightly sanding the surface. The success of this depends on the texture of the finish, and tests should be performed in inconspicuous locations before proceeding. Re-apply wax or sealer, if required, to sanded areas.

Repairs: Most damage to Terra surfaces can be repaired by experienced applicators. Extensive damages may require replacement of an entire section of finished surface.

Graffiti: Consult a firm specializing in graffiti removal and protection.

TECHNICAL SERVICES

Design: Textstōn and many of its distributors are ready to assist designers with color matching and custom color development services; color chips and sample boards are available. Our master craftsmen are also available to help develop special textures and aesthetic effects and to provide assistance with specification development.

Training: The ultimate quality and beauty of Textstōn finishes depend upon the skill of the installers who apply them. While Terra is simple enough that any skilled finish contractor can learn to apply it, we also conduct rigorous training programs that enable us to certify master craftsmen. Classes can be conducted in the Textstōn studio, at a distributor's or contractor's location, or on a job site.

Installation: When specified for large or complex projects, Textstōn can provide master craftsmen to assist local applicator crews.

ADDITIONAL INFORMATION

Material Safety Data Sheet
Contractor Application Tips
Instruction on Product Label
Color Charts and Samples
Guide Specification



8025 Deering Avenue • Canoga Park (Los Angeles), CA 91304
800-788-7113 Tollfree • 818-227-4812 Phone • 818-227-4852 Fax
www.Textstōn.com

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