



SCOFIELD® Texturetop® Stamp Grade System

A premium-quality, colored cementitious topping system for resurfacing, texturing, imprinting, and adding color to exterior or interior concrete floors or hardscapes.

TECH-DATA BULLETIN C-734.04

1. Product Description:

The SCOFIELD® Texturetop® Stamp Grade System provides a durable topping for use where imprinting with stamping tools or embossing with texturing tools is desired. It is also suitable for chemical staining. SCOFIELD Texturetop Stamp Grade is formulated to produce strong, durable, patterned or textured exterior flatwork or interior floors. The colored cementitious topping material is smoothed by trowel prior to stamping and cures to form a hard wearing, abrasion-resistant textured surface. It is used to correct construction errors, to restore existing concrete floors and hardscapes or to unify the appearance where old and new concrete meet. Typical applications include commercial, industrial and residential projects in new construction or renovation.

The SCOFIELD Texturetop Stamp Grade System effectively performs at depths from $\frac{1}{8}$ inch (3 mm) to $\frac{3}{8}$ inch (10 mm). It will achieve a compressive strength of 4000 pounds per square inch (28 MPa) in 28 days, allowing heavier loads without damage.

The SCOFIELD Texturetop Stamp Grade System is one of the Texturetop family of products, each of which is optimized for specific types of applications. Refer to Scofield's Tech-Data Bulletins C-744 SCOFIELD® Texturetop® Stencil Grade and C-754 SCOFIELD® Texturetop® Trowel & Spray Grade for further information.

The SCOFIELD Texturetop Stamp Grade System is a proprietary, colored topping system comprised of a complex, polymer-modified cementitious formulation. This topping system consists of a slurry primer, an uncolored base material and a separate coloring agent. It offers many advantages including high strength, excellent moisture and freeze/thaw resistance, and an attractive color range. SCOFIELD Texturetop Stamp Grade must be applied over wet, freshly placed SCOFIELD® Texturetop® Slurry Primer. SCOFIELD Texturetop Stamp Grade is easy to mix and economical to install. Only the prepackaged SCOFIELD Texturetop components and water are required, eliminating the necessity for field formulation and accurate weighing of various ingredients under jobsite conditions.

2. Coverage:

One SCOFIELD Texturetop Slurry Primer 23-pound (10.4 kg) pail of mixed material will cover approximately 50–100 square feet (4.6–9.3 m²), depending on application method, substrate profile and the substrate's absorption rate.

The amount of SCOFIELD Texturetop Stamp Grade that is required will vary depending on depth of installation, substrate surface profile and texture, preparation procedures, specified surface finish, and other conditions.

One SCOFIELD Texturetop Stamp Grade 55-pound (25 kg) combination unit will yield approximately $\frac{1}{2}$ cubic foot (0.014 m³) of mixed material.

One SCOFIELD Texturetop Stamp Grade bag mixed with one Color Pack will cover approximately 24 square feet to a depth of $\frac{1}{4}$ inch (2.4 m² @ 6 mm).

3. Limitations:

The SCOFIELD Texturetop Stamp Grade System is intended for use over nonmoving, structurally sound, properly prepared concrete substrates. Not all substrates are suitable for installation of the SCOFIELD Texturetop Stamp Grade System,

including concrete that is not fully cured, most lightweight concrete, and gypsum-based products of any type. SCOFIELD Texturetop Stamp Grade is not intended for use in areas subject to metal-wheeled vehicular traffic. SCOFIELD Texturetop Stamp Grade must not be used in areas subject to hydrostatic pressure, active water leaks, or continuous water immersion. Without specific prior testing, SCOFIELD Texturetop Stamp Grade must not be installed in areas subject to harsh chemicals.

As with most cementitious products, cracks or joints in the substrate will reflect through the SCOFIELD Texturetop Stamp Grade topping. The existing substrate joints must be extended up through the full depth of the topping by dry saw-cutting. The installation must be engineered to allow for expansion and contraction of both the substrate and the Texturetop Stamp Grade topping.

SCOFIELD Texturetop Stamp Grade must be applied from a minimum of $\frac{1}{8}$ inch (3 mm) to a maximum of $\frac{3}{8}$ inch (10 mm) thick. When selecting the texture of the imprinting tool, the thickness of the topping must be as indicated in section 18. *Imprinting*. Abrasion resistance and durability improve with increased Texturetop Stamp Grade thickness.

Badly scarred substrates requiring repair over $\frac{3}{8}$ inch (10 mm) in depth must be repaired with a concrete repair material. The SCOFIELD Texturetop Stamp Grade System can be used to repair spalls, scratches and gouges between $\frac{1}{8}$ inch (3 mm) and $\frac{3}{8}$ inch (10 mm) in depth and less than 4 square feet (0.4 m²) in total area. Proper repair procedures must be utilized when making repairs to concrete. Refer to American Concrete Institute (ACI) or International Concrete Repair Institute (ICRI) standards for proper concrete repair procedures.

SCOFIELD Texturetop Stamp Grade System installations must take place when air and substrate surface temperatures are between 45° F and 90° F (7–32° C). Optimum temperature of the substrate and mixed material for ease of installation is 70° F (21° C).

If air temperature is expected to drop below 45° F (7° C) during placement or within the next 48 hours after placement, the SCOFIELD Texturetop Stamp Grade System must not be installed. Special precautions must be taken when SCOFIELD Texturetop Stamp Grade is placed during windy weather. When the air or substrate temperature exceeds 80° F (27° C) refer to section 17. *Hot Weather Installation*. During hot weather, installation should take place during the coolest part of the day. Do not install SCOFIELD Texturetop Stamp Grade if rain is expected within 24 hours after placement.

SCOFIELD Texturetop Stamp Grade surfaces must be sealed with a recommended Scofield sealer within 48 hours after placement.

4. Applicable Standards:

Professional standards and practices, including those published by the American Concrete Institute (ACI), the International Concrete Repair Institute (ICRI), and the Portland Cement Association (PCA) should be followed.



5. Colors:

SCOFIELD Texturetop Color Packs are available in all colors of LITHOCHROME® Color Hardener and CHROMIX® Admixtures for Color-Conditioned® Concrete as approximated on Scofield's Color Charts A-112 LITHOCHROME Color Hardener, A-132 Color Selection Chart and A-312 CHROMIX Admixtures for Color-Conditioned Concrete. Color Packs are mixed with SCOFIELD Texturetop Stamp Grade Base material. Not all colors are inventoried. Contact your Scofield representative for availability.

With sufficient prior notification, custom colors can be designed and are manufactured per quotation. Contact your Scofield representative for availability and pricing.

If the SCOFIELD Texturetop Stamp Grade surface is to be stained with LITHOCHROME® Tintura™ Stain or LITHOCHROME® Chemstain™ Classic, or imprinted and antiqued with LITHOCHROME® Antiquing Release, experimentation is required to produce the proper combination of colors to achieve the desired effect.

Generally, lighter Texturetop colors are chosen for staining. The Texturetop topping may be stained after it has sufficiently cured to walk on without damage and is sufficiently dry, normally 4–8 hours after installation at 70° F (21° C). Application of a stain may highlight imperfections in the topping surface. A jobsite test section must be prepared to verify and approve the Tintura or Chemstain application before the general staining procedure is started. Scofield's Tech-Data Bulletin A-424 LITHOCHROME Tintura Stain or A-414 LITHOCHROME Chemstain Classic must be read completely before using.

6. Technical Data:

Physical test data for SCOFIELD Texturetop Stamp Grade and conventional concrete are given in the table below. All test results are typical of values obtained when tested in accordance with the referenced ASTM test methods.

Physical Test Data		
PROPERTY/PARAMETER TEST METHOD	SCOFIELD TEXTURETOP STAMP GRADE	
Compressive Strength C 109 2 in. cubes, modified, air cured	1 Day	1000 psi (7 MPa)
	7 Days	2500 psi (17 MPa)
	28 Days	4000 psi (28 MPa)
	Abrasion Resistance, Taber, ASTM D 4060, wt. loss, H-22, 1000 g, age 28 days	
0.20 g @ 1000 cycles		
PROPERTY/PARAMETER TEST METHOD	CONCRETE CONTROL 4 IN. (100 mm) SLUMP	
Compressive Strength C 109 2 in. cubes, modified, air cured	1 Day	750 psi (5 MPa)
	7 Days	2000 psi (14 MPa)
	28 Days	3500 psi (24 MPa)
	Abrasion Resistance, Taber, ASTM D 4060, wt. loss, H-22, 1000 g, age 28 days	
0.50 g @ 1000 cycles		

7. Storage and Shelf Life:

Under normal conditions and when kept out of direct sunlight, dry, and moisture free, the shelf life of the SCOFIELD Texturetop Stamp Grade Base material is 6 months from the date of purchase. The shelf life of the SCOFIELD Texturetop Color Packs and SCOFIELD Texturetop Slurry Primer is 2 years from the date of purchase. Storage must be under roof and off the floor. Inventory must be rotated to maintain product that is within shelf life limits.

8. Sizes:

SCOFIELD Texturetop Stamp Grade Base material is available in 53-pound (24 kg) bags. SCOFIELD Texturetop Color Packs contain 2 pounds (1 kg) of coloring material. SCOFIELD Texturetop Slurry Primer is available in 23-pound (10.4 kg) pails.

9. Cautions:

WARNING!

HARMFUL IF INHALED. IRRITATING TO EYES AND SKIN. MAY CAUSE DELAYED LUNG INJURY (SILICOSIS). DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. CONTAINS CEMENT AND SILICA (QUARTZ). Cancer hazard. Contains Silica (Quartz) which can cause cancer. (Risk of cancer depends on duration and level of exposure.) Use only with adequate ventilation. Do not breathe dust. Wet cement may cause alkali burns. Avoid contact with eyes, skin, and clothing. Wear dust (particulate) respirator (NIOSH TC-84A approved), safety goggles, and gloves. Follow respirator manufacturer's directions for respirator use.

First Aid: Eyes—DO NOT RUB EYES. Immediately flush thoroughly with large amounts of water. Skin—Wash thoroughly with soap and water. Remove soiled clothing and wash before reuse. Inhalation—If inhaled, or if difficulty in breathing is experienced, move to fresh air. If symptoms persist or develop, or if ingested, get medical attention.

Wash thoroughly immediately after handling. Store in a cool, dry, well-ventilated area, in unopened original packaging or in tightly closed labeled containers. Avoid generating dust during recovery or disposal. Disposal of all residual or recovered product must be in accordance with applicable federal, state, and local regulations. Before using or handling, read the *Material Safety Data Sheet and Warranty*.

10. Textures and Slip Resistance:

Only uniformly slip-resistant textures should be considered for SCOFIELD Texturetop Stamp Grade surfaces. Precautions should be taken to ensure that the final surface will not be slippery.

For safety considerations, representative jobsite test sections as described in section 11. *Jobsite Test Sections* must be produced prior to SCOFIELD Texturetop Stamp Grade installation. The entire surface of the test section must be inspected after completion to verify and approve the adequacy of wet and dry slip resistance.

11. Jobsite Test Sections:

Proper installation and texturing of cement-based toppings requires skill and practice. Preparation procedures, air and substrate temperatures, mixing, installation, finishing techniques, experience in use of the material, and other factors will each affect the performance of the SCOFIELD Texturetop Stamp Grade topping. Using a section of the actual jobsite substrate, a representative test section must be installed to verify and approve the suitability of the product for its intended purpose.

The test section must be of adequate size and configuration to be representative. It must be produced by the same workers who will apply the SCOFIELD Texturetop Stamp Grade System materials, under the same expected ambient conditions, using the planned surface preparation and installation procedures and imprinting techniques. Subsequent treatments, such as sandblasting, staining, or sealing must be tested for suitability under jobsite conditions.

For safety considerations, the entire surface of the jobsite test section must be inspected after completion to verify and approve the adequacy of wet and dry slip resistance.



12. Equipment and Materials:

When using equipment and materials during preparation and installation, suitable protective gear must be worn and government regulations, manufacturer's instructions, and all applicable safety requirements must be followed.

Proper surface preparation is essential for successful topping installation. Normally, SCOFIELD Texturetop Stamp Grade is applied using a gauge rake spreader and then troweled and textured as desired.

For substrate preparation, use scarifying, shot-blasting, sandblasting, or similar processes to remove laitance, curing compounds, coatings, and other contaminants and to roughen the concrete surface adequately. After roughening, sweep up debris and follow with a thorough cleaning using a high-pressure water washer and an industrial wet vacuum to remove all loose particles from the substrate. Do not use sweeping alone as it usually leaves dust on the prepared substrate, which can cause adhesion problems. Refer to ICRI *Guideline Number 03732* and achieve a Concrete Surface Profile (CSP) between Number 3 and Number 5.

For measuring, a calibrated container capable of accurate water measurement must be used. To facilitate measurement, the correct amount of water per bag can be measured into a plastic bucket. Then a slot can be cut in the bucket at the resulting water level, allowing subsequent fillings of the bucket to self-adjust to the proper volume.

For mixing on small jobs, SCOFIELD Texturetop Stamp Grade and SCOFIELD Texturetop Slurry Primer are mixed in 5-gallon (20 L) plastic pails. Proper mixing cannot be achieved by hand. A stainless steel, 5-gallon box mixing paddle (available from the Midwest Rake Company, 800-815-7253) fitted onto a 1/2-inch (13 mm), heavy-duty, top-vented drill with a minimum 650 rpm, 7-amp motor must be used.

For mixing on large jobs, SCOFIELD Texturetop Stamp Grade is mixed in an appropriate, professional-quality mortar mixer similar to that used for brick mortar. Follow manufacturer's instructions and safety requirements. SCOFIELD Texturetop Slurry Primer is mixed in single units to pace the SCOFIELD Texturetop Stamp Grade placement.

For application of the slurry primer coat, a stiff bristle broom or hand brush must be used to work the material into the pores of the substrate.

For application by gauge rake spreader, the gauge rake must be an epoxy or mortar spreader tool (CAM® Gauge Rake available from the Midwest Rake Company, 800-815-7253) equipped with the desired thickness cam set. After spreading, consolidate with a high-grade steel trowel of professional quality and suitable size.

For surface finishing suitable, professional-quality tools required to obtain the specified texture when finishing concrete flatwork must be used, such as trowels, fresnos, or swivel-mounted ("funny") trowels. LITHOTEX® Pavecrafters® tools are used when imprinting SCOFIELD Texturetop Stamp Grade.

For joint production dry saw-cutting equipment must be used.

13. Substrate Preparation:

Prior to general installation, a representative test section must be produced as described in section 11. *Jobsite Test Sections*. Surrounding areas and adjacent surfaces should be protected from dust, spills, tracking, and equipment contact. The work area should be roped off and appropriate sections closed to traffic.

The most common cause of topping failure is improper substrate preparation. The concrete substrate must be sound and nonmoving and must be prepared as recommended in ICRI *Guideline Number 03732* to provide a Concrete Surface Profile (CSP) between Number 3 and Number 5, using equipment as described in section 12. *Equipment and Materials*.

Before installing SCOFIELD Texturetop Stamp Grade, all loose materials, laitance, curing membranes, coatings, floor coverings, dirt, dust, grease, oil, or other contaminants must be completely removed using the equipment described in section 12. *Equipment and Materials*. The cleaning method to be used depends on the condition of the substrate. Failure to remove all contaminants and coatings that impede the adhesion of the topping will cause failure of the bond. Detergents, soap and water cleaning procedures, or sweeping compounds are not recommended since they leave a film that may cause bonding failure. During cleaning, care should be taken not to damage the appearance of surfaces adjacent to the substrate.

The concrete substrate must be fully cured, a minimum of 28 days. Substrates must be completely clean, sound, and free of any contaminant that may cause loss of bond. All loose, crumbling, spalled, broken, or otherwise unsound concrete must be removed down to sound concrete. The concrete surface must be open and readily absorb water. The surface of hard-troweled or burnished concrete must be roughened by mechanical means. Concrete should not be acid etched. Refer to ASTM standards *D 4258 Standard Practice for Surface Cleaning Concrete for Coating* and *D 4259 Standard Practice for Abrading Concrete* for additional substrate surface preparation information.

On all exterior and many interior applications, SCOFIELD Texturetop Stamp Grade is applied over the SCOFIELD Texturetop Slurry Primer-coated substrate. The prepared concrete surface must be premoistened for at least 2 hours, and then allowed to dry slightly until it is saturated surface dry (SSD). The surface should appear visibly darkened, but no water sheen should be present. Excess water can be removed by blotting, by blowing away with an air jet, or by brushing with a push broom. All puddles and any standing water must be removed. Any standing water left on the substrate when applying the slurry primer will cause bonding failure. SCOFIELD Texturetop Slurry Primer must be applied to the SSD substrate and then SCOFIELD Texturetop Stamp Grade must be placed while the bonding layer is still moist and workable.

On interior applications SCOFIELD Texturetop Stamp Grade can be applied using the SCOFIELD® Epoxy Primer/sand broadcast system if desired. This system can be used when an SSD condition of the concrete substrate cannot be maintained. After surface preparation the Moisture Vapor Emission Rate (MVER) of the concrete substrate must be tested per ASTM *F 1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*. The MVER must be less than 5 pounds per 1000 square feet per 24 hours (2.5 kg/100 m²/24 hr) in order to allow the use of SCOFIELD Epoxy Primer. Refer to Scofield's Tech-Data Bulletin *C-914 SCOFIELD Epoxy Primer* for additional information.

14. Mix Design:

For mixing, use 4 quarts (3.8 L) of clean, fresh water per 23-pound (10.4 kg) pail of primer or per 55-pound (25 kg) combined unit (color pack and bag) of topping material. Adjustments of ±4 fluid ounces (±0.1 L) to the amount of mixing water per pail of primer or combined unit of topping material shall be made only as necessary to achieve proper consistency when temperature or humidity affects water demand.

15. Mixing:

Weather conditions must be considered before mixing. Air and substrate surface temperatures must be between 45° F and 90° F (7–32° C). If air temperature is expected to drop below 45° F (7° C) during placement or within the next 48 hours after placement, the SCOFIELD Texturetop Stamp Grade System must not be installed. If air temperature is expected to be between 80° F and 90° F (27–32° C) during placement refer to section 17. *Hot Weather Installation* for special instructions. Do not mix SCOFIELD Texturetop Stamp Grade at temperatures exceeding 90° F (32° C). Do not install the SCOFIELD Texturetop Stamp Grade System if rain is expected within 24 hours after placement, especially when cool, damp conditions exist.



The mixer or mixing container must be prewet and excess water drained before preparing the first batch of SCOFIELD Texturetop Slurry Primer or SCOFIELD Texturetop Stamp Grade. The volume of water added to the mix must be accurately measured. Overwatering causes bond strength reduction, laitance, weakening of the topping surface, and craze cracking. Under watering decreases workability and may adversely affect adhesion.

The work life of SCOFIELD Texturetop Slurry Primer and SCOFIELD Texturetop Stamp Grade varies with temperature. For ease of installation the temperature of the mix should be near 70° F (21° C). When the SCOFIELD Texturetop components have been stored before use at temperatures above 70° F (21° C), the use of cold water or water cooled with ice (block or bagged, no loose chips) is necessary to maintain the mixed material temperature and maximize the work life. It is important that the components are added in the same sequence, thoroughly power-mixed, and that all mixing procedures continue for the specified time.

The SCOFIELD Texturetop Slurry Primer must be mixed and placed before the SCOFIELD Texturetop Stamp Grade. Place the measured water into the mixing container, start the mixer and slowly add the SCOFIELD Texturetop Slurry Primer material and continue mixing for 3–4 minutes until the mixture has a smooth and lump-free consistency similar to pancake batter. Remix for 1 minute as needed to avoid settling.

When mixing SCOFIELD Texturetop Stamp Grade, the water must be added to the mixer or mixing container first, then the SCOFIELD Texturetop Color Pack, followed by the Texturetop Stamp Grade Base material. The dry materials must always be added to the mix water. This process must never be reversed. Adding water to the dry materials may cause lumps, adversely affecting the properties of the mixture.

Mix the dry SCOFIELD Texturetop Color Pack with the measured mixing water for 30 seconds and then slowly add the Texturetop Stamp Grade Base material and power-mix until a smooth, uniform, lump-free consistency and a streak-free color are reached, a minimum of 3 minutes. After mixing, additional water must not be added.

■ 16. Installation:

The substrate must be prepared and cleaned as described in section 13. *Substrate Preparation*. The SCOFIELD Texturetop Stamp Grade System components must be mixed as described in sections 14. *Mix Design* and 15. *Mixing*, and installed using the equipment and materials described in section 12. *Equipment and Materials*. The work area should be roped off and appropriate sections closed to traffic. Adjacent and surrounding surfaces should be protected. The surface should be divided into small work sections using walls, joint lines, or other stationary features as natural stopping points.

As with most cementitious products, cracks or joints in the substrate will reflect through the Texturetop Stamp Grade topping. Since the substrate and topping will move together, all working joints in the substrate must be reproduced in the topping to reduce cracking. Joints must be dry saw-cut after the material has set. Control joints must be full depth, placed precisely over existing joint positions in the substrate, and be as wide as or wider than the old joints.

SCOFIELD Texturetop Slurry Primer is mixed to a consistency similar to pancake batter and is placed using a push broom or a brush to evenly coat the properly prepared SSD substrate. The SCOFIELD Texturetop Stamp Grade mixture must be placed while the slurry primer is still wet.

SCOFIELD Texturetop Stamp Grade must be installed as soon as possible after mixing, in depths from 1/8 of an inch (3 mm) to a maximum of 3/8 of an inch (10 mm). SCOFIELD Texturetop Stamp Grade is normally placed using a gauge rake spreader to achieve the desired thickness, and then smoothed with a trowel, Fresno, or swivel-mounted (“funny”) trowel.

The SCOFIELD Texturetop Slurry Primer or SCOFIELD Texturetop Stamp Grade mixed material must never be retempered. Retempering may cause bond failure or craze cracking of the cured topping. Any primer or topping mixture which has not been installed by the end of its work life must be discarded. Previously mixed material must not be added to newly mixed material.

Adequate plasticity of the primer and topping mixtures is necessary to achieve proper adhesion and bond strength. Do not attempt to apply SCOFIELD Texturetop Stamp Grade once plasticity starts to diminish. Discard any mixed material when the plasticity starts to be lost.

■ 17. Hot Weather Installation:

Do not place SCOFIELD Texturetop Stamp Grade when the air temperature is above 90° F (32° C). When installing SCOFIELD Texturetop Stamp Grade at air and substrate temperatures between 80° F (27° C) and 90° F (32° C), use the following guidelines.

SCOFIELD Texturetop components must be stored before use in a climate controlled area or in the shade. When the Texturetop materials have been stored before use at temperatures above 70° F (21° C), the use of cold water or water cooled with ice (block or bagged, no loose chips) is necessary to maintain the mix temperature and maximize the work life.

Hot weather installation procedures must follow those described in section 16. *Installation* with the addition of those listed below. The concrete substrate must be prepared and cleaned as described in section 13. *Substrate Preparation*, then premoistened for at least 2 hours and allowed to become saturated surface dry (SSD). High concrete substrate temperatures will significantly reduce working and imprinting time frames.

Cool the mixing equipment with water cooled with ice. Drain the excess water prior to mixing the first batch of SCOFIELD Texturetop Slurry Primer or SCOFIELD Texturetop Stamp Grade. When mixing use water cooled with ice (block or bagged, no loose chips), or coil the water supply hose in an ice-packed barrel to cool the water and aid in maintaining the temperature of the mixed material.

Alternatively, to increase working time during hot conditions when temperatures exceed 80° F (27° C), SCOFIELD® Texturetop® Hot Weather Additive (HWA) packets can be used. Use 1 packet per 23-pound (10.4 kg) pail of slurry primer or 55-pound (25 kg) combination unit of topping material. Add directly into the measured, cooled mix water and mix for 1 minute, and then refer to section 15. *Mixing*.

■ 18. Imprinting:

SCOFIELD Texturetop Stamp Grade is designed to be imprinted by the use of LITHOTEX Pavecrafters, a system of mat-type imprinting tools, or with thin, flexible LITHOTEX Pavecrafters Embossing Skins.

When imprinting or embossing, the minimum thickness of the installed Texturetop Stamp Grade topping must be sufficient to ensure that the profile of the tool does not bottom out, nominally 1/8 inch (3 mm) in excess of the maximum tool profile.

LITHOTEX® Liquid Release or SCOFIELD® Liquid Release SG is used as the primary bond breaker. LITHOCHROME Antiquing Release may be broadcast into the in-place LITHOTEX Liquid Release or SCOFIELD Liquid Release SG prior to texturing when the Texturetop Stamp Grade surface is to have an antiqued appearance. Additional information about texturing and antiquing imprinted concrete is available in Scofield’s Tech-Data Bulletins T-404 *LITHOTEX Pavecrafters*, T-604 *LITHOTEX Liquid Release*, T-614 *SCOFIELD Liquid Release SG*, and A-854 *LITHOCHROME Antiquing Release*.



Timing is critical for successful imprinting operations. Texturetop Stamp Grade mortar must be allowed to stiffen until it is sufficiently rigid to support stamping operations, yet is still plastic enough to imprint properly. Stamping too early will cause the tools to sink too deeply into the Texturetop mortar or may cause extrusion of mortar around the tool perimeter. When stamping too late, the diminished plasticity of the Texturetop mortar may not provide sufficient detail in the imprinted surface or may cause cracking to occur.

On larger jobs, the slurry primer application, topping material placement and imprinting operation should be adjusted so that a similar time pace is maintained between the job elements. Some minor adjustment in scheduled timing may be required as the temperature changes during the day.

■ 19. Curing and Saw-cutting:

SCOFIELD Texturetop Stamp Grade is self-curing. During hot and/or windy conditions, however, cover the in-place SCOFIELD Texturetop Stamp Grade immediately after finishing or imprinting with concrete curing paper, preferably white, for approximately 24 hours or until joints are going to be cut. Curing paper should conform to ASTM C 171 *Sheet Materials for Curing Concrete*. The selected method of curing and timing of application can affect the color and uniformity of appearance and should be evaluated under similar conditions during the test section application. Setting time and curing requirements vary with air temperature, humidity, and air movement. The Texturetop Stamp Grade topping can be walked on gently after it has reached sufficient strength, normally 4–8 hours after installation at 70° F (21° C).

All surfaces must be thoroughly inspected, verified for safety and approved prior to opening the area to traffic.

When saw-cutting joints, the saw-cutting must be done before cracking occurs and when the surface has reached sufficient strength not to be damaged, normally 12–16 hours after the Texturetop Stamp Grade topping was installed. To reduce stress, the in-place SCOFIELD Texturetop Stamp Grade topping must be saw-cut at intervals not to exceed 10 feet (3 m) on centers with the length and width of the saw-cut area made similar in size. Generally these saw-cuts will be at some even fraction of the concrete joint spacing. The on-center saw-cut spacing must not exceed 10 feet (3 m) by 10 feet (3 m). For example, control joint spacing of 15 feet (4.6 m) in the concrete would require saw-cuts at intervals of 7.5 feet (2.3 m) in the Texturetop Stamp Grade topping. The saw-cuts must be at least 1/4 inch (6 mm) in width or as wide as the existing joint if it is over 1/4 inch (6 mm). The saw-cuts must be placed exactly over the existing joint and must extend through the full depth of the in-place SCOFIELD Texturetop Stamp Grade. Application of fresh topping against already-hardened material or existing concrete (cold joints) will also require saw-cutting of the abutting joint in a similar manner between construction placements.

SCOFIELD Texturetop Stamp Grade gains strength more rapidly than concrete. The area can be opened to traffic when it reaches sufficient strength not to be damaged, a minimum of 24 hours for light traffic and approximately 2–3 days for normal traffic at 70° F (21° C). Cool temperatures will delay the opening of the in-place SCOFIELD Texturetop Stamp Grade to traffic and may cause condensation resulting in discoloration.

■ 20. Sealing:

For ease of maintenance and to protect the surface, all SCOFIELD Texturetop Stamp Grade horizontal surfaces and vertical edges, except saw-cut joints or decorative scoring, must be sealed within 48 hours after placement with one of the following: SCOFIELD® Selectseal-W™, SCOFIELD® Cureseal-W™, SCOFIELD® Cureseal-S™, CEMENTONE® Clear Sealer, or COLORCURE® Concrete Sealer. The appropriate Scofield Tech-Data Bulletin B-504 *SCOFIELD Selectseal-W*, B-204 *SCOFIELD Cureseal-W*, B-604 *SCOFIELD Cureseal-S*, A-764 *CEMENTONE Clear Sealer*, or A-634 *COLORCURE Concrete Sealer* must be read completely before using.

Prior to sealing, the SCOFIELD Texturetop Stamp Grade surface must be cleaned with a detergent and water and then rinsed thoroughly. For unstained Texturetop Stamp Grade surfaces, seal as soon as the topping has cured sufficiently and dried completely. If LITHOCHROME Chemstain Classic was used, all stained surfaces must be completely neutralized and cleaned thoroughly prior to sealing. Failure to completely remove all Chemstain residue and to neutralize and rinse all surfaces adequately prior to sealing will likely result in disbonding of the sealer. Refer to Scofield's Tech-Data Bulletin A-414 *LITHOCHROME Chemstain Classic* for neutralization and rinsing instructions.

For optimum performance and durability SCOFIELD Selectseal-W is recommended for sealing and protecting SCOFIELD Texturetop Stamp Grade surfaces. The Scofield Tech-Data Bulletin B-504 *SCOFIELD Selectseal-W* must be read completely before using.

After saw-cutting, all joints and decorative scoring in the in-place Texturetop Stamp Grade topping must be cleaned and a joint sealant must be installed to prevent water infiltration. Precautions should be taken when using solvent-based sealers, such as SCOFIELD Cureseal-S, to ensure compatibility with the joint sealant.

All sealed surfaces must be thoroughly inspected to verify and approve installation and safety, including wet and dry slip resistance, prior to opening the area to traffic.

■ 21. Floor/Hardscape Maintenance:

A maintenance application of the same SCOFIELD sealer originally used should be made periodically as the sealer is worn off the surface. Instructions for the maintenance and resealing of concrete surfaces are available in the Scofield Tech-Data Bulletins B-504 *SCOFIELD Selectseal-W*, B-204 *SCOFIELD Cureseal-W*, B-604 *SCOFIELD Cureseal-S*, A-764 *CEMENTONE Clear Sealer*, or A-634 *COLORCURE Concrete Sealer*, which must be read completely before using.

Interior concrete floor surfaces topped with SCOFIELD Texturetop Stamp Grade and sealed with a recommended SCOFIELD sealer should be protected with a compatible, slip-resistant, emulsion-type, commercial floor finish following the manufacturer's instructions and safety requirements. Recommendations can be obtained 24 hours a day by phoning the JohnsonDiversey hot line at 800-558-2332.

■ 22. Availability:

SCOFIELD Texturetop Stamp Grade Base material, SCOFIELD Texturetop Color Packs, SCOFIELD Texturetop Slurry Primer and SCOFIELD Texturetop Hot Weather Additive packets are marketed nationwide and internationally, directly to the user and through strategically located warehouses, dealers, and representatives. Contact Scofield for its nearest representative.

Scofield offers a complete line of engineered systems for coloring, texturing, and improving performance in architectural concrete. Scofield Systems address specialized requirements for interior, exterior and vertical uses with compatible systems of complementary products including coloring admixtures, color hardeners, colored cementitious toppings, stains, curing compounds, sealers, coatings, repair products and texturing tools. Visit the Scofield website at www.scofield.com for further information.

■ 23. Warranty Summary:

For the complete warranty statement and important limitations, read the *Material Safety Data Sheet and Warranty*. Generally, Scofield represents and warrants only that its products are of consistent quality. No other oral or written statement is authorized. Any liability is limited to refund or replacement of defective product. The end user shall determine product's suitability and assume all risks and liability.

See page 6 for Suggested Short Form Specifications.

***Suggested Short Form Specification for Interior or Exterior, Textured Cementitious Topping Flatwork:***

All architectural concrete flatwork designated in the plans or specifications as having a textured, two-component, colored, applied cementitious topping surface shall have SCOFIELD® Texturetop® Slurry Primer and SCOFIELD® Texturetop® Stamp Grade placed in accordance with Tech-Data Bulletin C-734, using _____ SCOFIELD® Texturetop® Color Packs and shall be placed at a thickness of _____ inches. The installed SCOFIELD® Texturetop® Stamp Grade topping shall be textured by imprinting with LITHOTEX® Pavecrafters® Imprinting Tools or Embossing Skins in _____ pattern using uncolored LITHOTEX® Liquid Release and when an antiqued appearance is desired also using LITHOCHROME® Antiquing Release in _____ color(s) in accordance with Tech-Data Bulletins T-404, T-604 or A-854. All textured surfaces shall be sealed with SCOFIELD® Selectseal-W™, SCOFIELD® Cureseal-W™, SCOFIELD® Cureseal-S™, or CEMENTONE® Clear Sealer in accordance with Tech-Data Bulletin B-504, B-204, B-604, or A-764 where a clear sealer is designated, or with COLORCURE® Concrete Sealer in the matching color in accordance with Tech-Data Bulletin A-634. All products shall be manufactured by L. M. Scofield Company, (800) 800-9900, Los Angeles, CA, (323) 720-3000 and Atlanta, GA, (770) 920-6000.

Suggested Short Form Specification for Chemically Stained, Interior or Exterior, Textured Cementitious Topping Flatwork:

All architectural concrete flatwork designated in the plans or specifications as having a textured and stained, two-component, colored, applied cementitious topping surface shall have SCOFIELD® Texturetop® Slurry Primer and SCOFIELD® Texturetop® Stamp Grade placed in accordance with Tech-Data Bulletin C-734, using _____ SCOFIELD® Texturetop® Color Packs and shall be placed at a thickness of _____ inches. The installed SCOFIELD® Texturetop® Stamp Grade topping shall be textured by imprinting with LITHOTEX® Pavecrafters® Imprinting Tools or Embossing Skins in _____ pattern using uncolored LITHOTEX® Liquid Release and when an antiqued appearance is desired also using LITHOCHROME® Antiquing Release in _____ color(s) in accordance with Tech-Data Bulletins T-404, T-604 or A-854. After hardening, the SCOFIELD® Texturetop® Stamp Grade topping surface shall be stained with LITHOCHROME® Chemstain™ Classic or LITHOCHROME® Tintura™ Stain in accordance with Tech-Data Bulletin A-414 or A-424 using _____ color(s). The contractor shall submit the final stain color and application techniques on jobsite test samples to be approved by the architect prior to installation. All SCOFIELD® Texturetop® Stamp Grade topping surfaces stained with LITHOCHROME® Chemstain™ Classic shall be sealed with SCOFIELD® Selectseal-W™, SCOFIELD® Cureseal-W™, SCOFIELD® Cureseal-S™, or CEMENTONE® Clear Sealer in accordance with Tech-Data Bulletin B-504, B-204, B-604, or A-764. All SCOFIELD® Texturetop® Stamp Grade topping surfaces stained with LITHOCHROME® Tintura™ Stain shall be sealed with SCOFIELD® Selectseal-W™ only in accordance with Tech-Data Bulletin B-504. All products shall be manufactured by L. M. Scofield Company, (800) 800-9900, Los Angeles, CA, (323) 720-3000 and Atlanta, GA, (770) 920-6000.

**1 800 800 9900 or www.scofield.com****SCOFIELD PRODUCTS ARE INTENDED FOR PROFESSIONAL USE ONLY****■ L. M. Scofield Company customer service: 1 800 800 9900****Western Headquarters:** 6533 Bandini Blvd., Los Angeles, CA 90040 **voice:** 323 720 3000 **fax:** 323 720 3030**Eastern Headquarters:** 4155 Scofield Road, Douglasville, GA 30134 **voice:** 770 920 6000 **fax:** 770 920 6060**www.scofield.com**