



SCOFIELD® Texturetop® Stencil Grade

A premium-quality, colored cementitious topping for resurfacing, stenciling and texturing exterior or interior concrete floors or hardscapes.

TECH-DATA BULLETIN C-744.01

1. Product Description:

SCOFIELD® Texturetop® Stencil Grade provides a durable topping for use where stenciling, embossing, texturing or chemical staining of the surface is desired. In addition to stenciling, it is suitable for renovating scaled concrete and resurfacing to add a broom or float finish. SCOFIELD Texturetop is formulated to produce strong, durable, stenciled or textured exterior flatwork or interior floors. The colored cementitious topping material is trowel-finished and cures to form hard wearing, abrasion-resistant surfaces. 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 and residential projects in new construction or renovation.

SCOFIELD Texturetop Stencil Grade effectively performs at thicknesses from $\frac{1}{32}$ inch (0.8 mm) to $\frac{1}{8}$ inch (3 mm). It develops a compressive strength of 4500 pounds per square inch (31 MPa) in 28 days, allowing heavier loads without damage. SCOFIELD Texturetop Stencil Grade can be layered when additional thickness is necessary.

SCOFIELD Texturetop Stencil Grade 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-734 SCOFIELD® Texturetop® Stamp Grade and C-754 SCOFIELD® Texturetop® Trowel & Spray Grade for further information.

SCOFIELD Texturetop Stencil Grade is a proprietary, colored topping system comprised of a complex, polymer-modified cementitious formulation. This topping system consists of an uncolored base material and a separate coloring agent that, when combined, offer many advantages compared to most topping materials, including higher strength, excellent moisture and freeze/thaw resistance, and an attractive color range. SCOFIELD Texturetop Stencil Grade contains no calcium chloride and is formulated only with components which are environmentally safe and do not emit hazardous fumes such as formaldehyde or ammonia. SCOFIELD Texturetop Stencil Grade will not cause or contribute to Sick Building Syndrome.

SCOFIELD Texturetop Stencil 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. Simply measure the proper amount of water, place water into mixing container, start mixing, add the color pack(s) and then add the corresponding number of bags of topping base material. Mix 4 minutes per mixing instructions, then place and finish.

2. Coverage:

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

One SCOFIELD Texturetop Stencil Grade bag mixed with one Color Pack will cover approximately 50 square feet to a depth of $\frac{1}{8}$ inch (4.9 m² @ 3 mm).

3. Limitations:

SCOFIELD Texturetop Stencil Grade is intended for use over nonmoving, structurally sound, properly prepared concrete substrates. Not all substrates are suitable for the installation of SCOFIELD Texturetop Stencil Grade, including concrete that is not fully cured, most lightweight concrete, and gypsum-based products of any type. SCOFIELD Texturetop Stencil Grade is not intended for use in areas subject to high traffic or on industrial floors. SCOFIELD Texturetop Stencil Grade must not be used in areas subject to hydrostatic pressure, active water leaks, or continuous water immersion. Without specific prior testing, SCOFIELD Texturetop Stencil 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 Texturetop topping. The existing substrate joints must be extended up through the full depth of the topping by saw-cutting, tooling, or forming. The installation must be engineered to allow for expansion and contraction of both the substrate and the Texturetop topping.

SCOFIELD Texturetop Stencil Grade must be applied from $\frac{1}{32}$ inch (0.8 mm) to a maximum of $\frac{1}{8}$ inch (3 mm) thick. If the Texturetop Stencil Grade topping is to be embossed, the tool profile shall be no more than $\frac{3}{32}$ inch (2.4 mm) and a full $\frac{1}{8}$ inch (3 mm) of topping must be installed, otherwise the embossing skin can bottom out during the texturing process. Abrasion resistance and durability improve with additional Texturetop Stencil Grade thickness. A nominal thickness of $\frac{1}{8}$ inch (3 mm) is recommended to provide an adequate wearing layer.

For areas where additional topping depth is required, SCOFIELD Texturetop Stencil Grade must be placed in layers. The previous Texturetop topping layer must be allowed to harden before the placement of the next layer, a minimum of 3–4 hours, so that damage to the previous layer does not occur. The first layer of SCOFIELD Texturetop Stencil Grade must be dampened prior to application of the subsequent layer.

The volume of water added to the topping mix must be accurately measured. For proper performance, mixing must be uniform, thorough, and consistent. Overwatering the mix or overworking the surface will cause craze cracking. Proper mixing cannot be achieved by hand.

SCOFIELD Texturetop Stencil Grade 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, SCOFIELD Texturetop Stencil Grade must not be installed. Special precautions must be taken when SCOFIELD Texturetop Stencil 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 Stencil Grade if rain is expected within 24 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 and A-312 CHROMIX Admixtures for Color-Conditioned Concrete. Color Packs are mixed with SCOFIELD Texturetop Stencil 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 Stencil Grade surface is to be stained with LITHOCHROME® Tintura™ Stain or LITHOCHROME® Chemstain™ Classic, or embossed 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 Stencil 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 STENCIL GRADE	
Compressive Strength C 109 2 in. cubes, modified, air cured	1 Day	1250 psi (9 MPa)
	7 Days	3000 psi (21 MPa)
	28 Days	4500 psi (31 MPa)
	Abrasion Resistance, Taber, ASTM D 4060, wt. loss, H-22, 1000 g, age 28 days	0.35 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. Sizes:

SCOFIELD Texturetop Stencil Grade Base material is available in 53-pound (24 kg) bags. SCOFIELD Texturetop Color Packs contain 2 pounds (1 kg) of coloring material.

8. 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 Stencil Grade Base material is 6 months from the date of purchase. SCOFIELD Texturetop Color Packs have a shelf life of 2 years. Storage must be under roof and off the floor. Inventory must be rotated to maintain product that is within shelf life limits.

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 finishes, such as broom, sponge float, swirl, light sandblast, or most embossed finishes should be considered for SCOFIELD Texturetop Stencil Grade surfaces. Precautions should be taken to ensure that the final surface is uniformly troweled so that it will not be slippery.

For safety considerations, representative jobsite samples as described in section 11. *Jobsite Test Sections* must be produced prior to SCOFIELD Texturetop Stencil Grade installation. The entire surface of the sample must be inspected 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 Texturetop 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 Stencil Grade material, under the same expected ambient conditions, using the planned surface preparation and installation procedures and finishing techniques. Subsequent treatments, such as sandblasting, stenciling, embossing, staining, or sealing must be tested for suitability under jobsite conditions.



For safety reasons, the entire surface of the jobsite sample must be inspected 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. SCOFIELD Texturetop Stencil Grade is applied by broom, hopper gun, squeegee, or trowel, and then finished with the desired texture or surface finish.

For substrate preparation, use wire brushing, grinding, 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 International Concrete Repair Institute (ICRI) *Guideline Number 03732* and achieve a Concrete Surface Profile (CSP) between Number 2 and Number 4.

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 Stencil Grade is mixed in a 5-gallon (20 L) plastic pail or a 15–30 gallon (60–120 L) plastic container. Proper mixing cannot be achieved by hand. An oval-shaped mixer (High Viscosity Mixer, 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 Stencil Grade is mixed in an appropriate, professional-quality mortar mixer similar to that used for brick mortar. Follow manufacturer's instructions and safety requirements.

For application by trowel, trowels must be of high-grade steel, of professional quality, and of a suitable size.

For application by broom, the broom must be of professional quality.

For application by squeegee, the notched squeegee must be of suitable size and professional quality, with a blade of neoprene or comparable material (available from the Midwest Rake Company, 800-815-7253).

For application by hopper gun, the modified hopper gun must be of plastic, metal, or nylon and of professional quality with a holding chute and orifice of suitable size mounted on a high-grade compressor with suitable, oil-free air delivery.

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. SCOFIELD® Texturetop® Stencils are used when stenciling SCOFIELD Texturetop Stencil Grade. LITHOTEX® Pavecrafters® Embossing Skins are used when texturing SCOFIELD Texturetop Stencil Grade.

For joint production metal strips, hardboard, plastic inserts, hand-jointing tools, or saw-cutting equipment may 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 International Concrete Repair Institute (ICRI) *Guideline Number 03732* to provide a Concrete Surface Profile (CSP) between Number 2 and Number 4, using equipment as described in section 12. *Equipment and Materials*.

Before installing SCOFIELD Texturetop Stencil 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 Stencil Grade is applied without priming the substrate. The prepared concrete surface must be premoistened for at least 8 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 use of a squeegee, by blowing away with an air jet, or by brushing with a push broom. All puddles and any standing water must be removed.

On interior applications SCOFIELD Texturetop Stencil Grade can be applied using the SCOFIELD® Epoxy Primer/sand broadcast system if desired. This system can be used when a saturated surface dry (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:

Use 5 quarts (4.7 L) of clean, fresh water per 55-pound (25 kg) combined unit of material for mixing. Slight adjustments to the amount of mixing water per bag 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, SCOFIELD Texturetop Stencil Grade 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 Stencil Grade at temperatures exceeding 90° F (32° C). Do not install SCOFIELD Texturetop Stencil Grade 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 Stencil Grade. The volume of water added to the mix must be accurately measured. Over-watering causes laitance, weakening of the topping surface, and craze cracking. Under-watering decreases workability and may adversely affect adhesion.

The work life of SCOFIELD Texturetop Stencil 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 mix 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. Water must be added to the mixer or mixing container first, then the SCOFIELD Texturetop Color Pack, followed by the Texturetop Stencil 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. During mixing, care should be taken to prevent excessive dust from entering the vent holes and damaging the drill motor.

Mix the dry SCOFIELD Texturetop Color Pack with the measured mixing water for 30 seconds and then slowly add the Texturetop Stencil Grade Base material and power-mix until a smooth, uniform, lump-free consistency and a streak-free color are reached, a minimum of 4 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 Texturetop material 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 topping. Since the substrate and topping should move together, all working joints in the substrate must be reproduced in the topping to reduce cracking. Joints may be formed in the plastic topping or saw-cut after the material has set. 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 Stencil Grade must be installed as soon as possible after mixing, in thicknesses from $\frac{1}{32}$ of an inch (0.8 mm) to a maximum of $\frac{1}{8}$ of an inch (3 mm).

A second layer of SCOFIELD Texturetop Stencil Grade can be installed, if required, directly over the first layer within 3–4 hours after placement at 70° F (21° C), but not before the first layer has hardened sufficiently not to be damaged. Leave a rough surface finish on all layers but the last one to facilitate

bonding and dampen each in-place layer before applying the next layer. Additional layers, if desired, should be placed in the same manner. At lower temperatures more curing time must be allowed between layers to avoid damage.

The Texturetop Stencil Grade mixed material must never be retempered. Retempering may cause the cured topping to craze crack. Any 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.

SCOFIELD Texturetop Stencil Grade must be placed by use of a broom, hopper gun, squeegee, or trowel and then finished and textured as desired.

For hopper-gun applications, pre-saturate the concrete surface. Adjust the hopper-gun orifice to produce the spray pattern desired. Mix the SCOFIELD Texturetop Stencil Grade in batches consisting of one color pack and one bag of base material and transfer the mixed material to the hopper gun. Spray the material on cardboard or paper while making adjustments to the hopper gun or air delivery. Spray the mixed topping evenly over the surface, and allow it to harden adequately to avoid damage. Apply the next layer, and any desired subsequent layers, directly over the previous layer, normally within 3–4 hours after placement at 70° F (21° C), and trowel as desired. For knockdown applications, use a larger orifice size and spray apply the SCOFIELD Texturetop Stencil Grade in globs, and then knock down with a trowel to provide the finish desired.

When hopper guns are used for application of SCOFIELD Texturetop Stencil Grade, the hopper gun must be cleaned frequently and thoroughly to avoid buildup of the hardened Texturetop material.

Adequate plasticity is necessary to achieve proper adhesion and bond strength. Do not attempt to apply SCOFIELD Texturetop Stencil 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 Stencil Grade when the air temperature is above 90° F (32° C). When installing SCOFIELD Texturetop Stencil 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 8 hours and allowed to become saturated surface dry (SSD). High concrete substrate temperatures will significantly reduce working and embossing time frames.

Cool the mixing equipment with water cooled with ice. Drain the excess water prior to mixing the first batch of SCOFIELD Texturetop Stencil 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 mix temperature.

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. Using 1 packet per 55-pound (25 kg) combination unit of material, add directly into the measured, cooled mix water and mix for 1 minute, and then refer to section 15. *Mixing*.



■ 18. Stenciling and Embossing:

SCOFIELD Texturetop Stencil Grade is stenciled using SCOFIELD Texturetop Stencils, a system of paper stenciling templates. SCOFIELD Texturetop Stencil Grade can also be embossed, in some cases, using low profile LITHOTEX Pavecrafters Embossing Skins. The selection of LITHOTEX Pavecrafters Embossing Skins to be used with SCOFIELD Texturetop Stencil Grade must be restricted to low profile tools only in order to have adequate depth to avoid bottoming out the embossing skin.

LITHOTEX® Liquid Release is used as the bond breaker or LITHOCHROME Antiquing Release may be used when the embossed Texturetop Stencil Grade surface is to have an antiqued appearance. Additional information about embossing and antiquing stenciled concrete is available in Scofield's Tech-Data Bulletins *T-404 LITHOTEX Pavecrafters*, *T-704 SCOFIELD Texturetop Stencils*, *T-604 LITHOTEX Liquid Release*, and *A-854 LITHOCHROME Antiquing Release*.

Timing is critical for successful embossing operations. In-place SCOFIELD Texturetop Stencil Grade material must be allowed to stiffen until it is sufficiently rigid to support embossing operations, yet is still plastic enough to emboss properly. Embossing too early will cause the skins to sink too deeply into the Texturetop Stencil Grade material. When embossed too late, the diminished plasticity of the Texturetop Stencil Grade topping may not provide sufficient detail in the embossed surface or may cause cracking to occur.

On larger jobs, the embossing 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.

■ 19. Curing and Saw-cutting:

SCOFIELD Texturetop Stencil Grade is self-curing under most conditions. During hot and/or windy conditions, however, cover the in-place SCOFIELD Texturetop Stencil Grade immediately after finishing 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 Stencil 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 working 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 Stencil Grade topping was installed.

SCOFIELD Texturetop Stencil 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 Stencil Grade to traffic and may cause condensation resulting in discoloration.

■ 20. Sealing:

For ease of maintenance and to protect the surface, all SCOFIELD Texturetop Stencil Grade horizontal and vertical surfaces including the sides and bottom edges of decorative scoring must be sealed 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.

For unstained Texturetop Stencil 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. Generally, working joints should already be sealed prior to chemical staining to avoid damage to bond of material. 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 Stencil Grade surfaces. The Scofield Tech-Data Bulletin *B-504 SCOFIELD Selectseal-W* must be read completely before using.

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 Stencil 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 Stencil Grade Base material, SCOFIELD Texturetop Color Packs, 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, trowel- or spray-applied cementitious topping surface shall have SCOFIELD® Texturetop® Stencil Grade placed in accordance with Tech-Data Bulletin C-744, using _____ SCOFIELD® Texturetop® Color Packs and shall be placed at a thickness of _____ inches. The SCOFIELD® Texturetop® Stencil Grade topping shall be textured by stenciling with SCOFIELD® Texturetop® Stencils in _____ pattern and/or embossing with LITHOTEX® Pavecrafters® Embossing Skins in _____ pattern using LITHOCHROME® Antiquing Release in _____ color(s) or uncolored LITHOTEX® Liquid Release in accordance with Tech-Data Bulletins T-404, T-704, A-854 or T-604. 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, trowel- or spray-applied cementitious topping surface shall have SCOFIELD® Texturetop® Stencil Grade placed in accordance with Tech-Data Bulletin C-744, using _____ SCOFIELD® Texturetop® Color Packs and shall be placed at a thickness of _____ inches. The SCOFIELD® Texturetop® Stencil Grade topping shall be textured by stenciling with SCOFIELD® Texturetop® Stencils in _____ pattern and/or embossing with LITHOTEX® Pavecrafters® Embossing Skins in _____ pattern using LITHOCHROME® Antiquing Release in _____ color(s) or uncolored LITHOTEX® Liquid Release in accordance with Tech-Data Bulletins T-404, T-704, A-854 or T-604. After hardening, the SCOFIELD® Texturetop® Stencil 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® Stencil 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® Stencil 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.



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