



westcoat[®]
SPECIALTY COATING SYSTEMS

**SYSTEM
SPECIFICATION**

TC

TEXTURE COAT
DECORATIVE TEXTURED SURFACES

Texture-Crete[®] Solar Reflective Finish

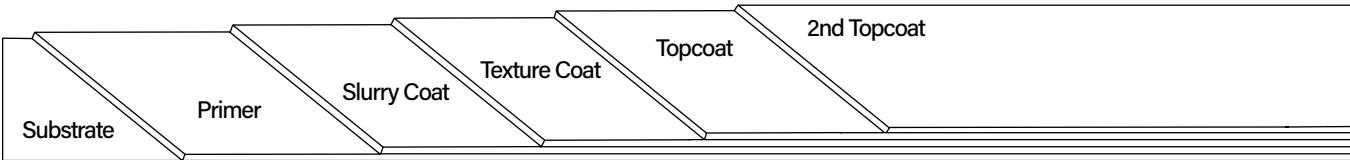
Description

Westcoat's Texture-Crete[®] Solar Reflective Finish System is a series of polymer-modified, white cementitious coatings that are bonded to the concrete or applied over Westcoat's ALX[™] and MACoat[™] Systems, then sealed with Westcoat's Solar Reflective series of SC-10 Acrylic Topcoats, that utilize infrared (IR) pigments. The TC Solar Reflective Finish System helps reduce the Urban Heat Island Effect and can lower the surface temperature. This system also meets the requirements of California Title 24* and can be installed with various textures and patterns that will work in many different applications.

Uses

The TC Solar Reflective Finish System can be applied directly over exiting concrete and is suitable for commercial and residential environments. Some uses include driveways, walkways, patios, courtyards, entryways, roof decks, theme parks and pool decks.

System Overview



System Data					
Coverages	Primer 250-350 ft ² per gallon	Slurry Coat 150-300 ft ² per batch	Texture Coat 150-300 ft ² per batch	Top Coat 200-400 ft ² per gallon	2nd Top Coat 200-400 ft ² per gallon
Components	WP-47A Seam Tape EC-72 Epoxy Patch Gel EC-11 Water-Based Epoxy TC-1W White Basecoat Cement TC-2 Smooth Texture Cement WP-81 Cement Modifier SC-10 Solar Reflective Acrylic Topcoat			Shelf Life	
				1 year 2 years 3 years 1 year 1 year 2 years 2 years	
Certifications	CRRC Product ID# 1316-0001: Solar Reflective Finish SC-10-SR Gray CRRC Product ID# 1316-0002: Solar Reflective Finish SC-10-SR Tan				

Advantages

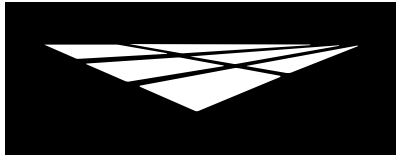
Meets California Title 24 Requirements* • Helps Reduce the Urban Heat Island Effect • Lowers the Surface Temperature • Cost Effective • Fast Drying • Low Maintenance • Long Lasting • Attractive • Can be Installed Solvent Free • Variety of Textures and Patterns

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Inspection

Substrate must be clean, dry and free of grease, paint, oil, dust, curing agents, laitance or any foreign material that will prevent proper adhesion. The concrete should be at least 2,500 PSI, porous and able to absorb water. A minimum of 28 days curing time is required on all concrete. Prior to starting work, test existing concrete slab for efflorescence, moisture and hydrostatic pressure.

Moisture

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 4% by weight using a concrete moisture meter (ASTM F2659) or if the relative humidity (RH) exceeds 75% (ASTM F2170), please refer to the EC-15 Moisture Vapor Barrier Product Specification Sheet.

Preparation

Pre-cut and clean all cracks and joints with a concrete diamond blade to at least ¼ x ¼ inch. Prepare concrete to a profile equal to CSP 3 as specified by ICRI. Methods may vary according to the thickness of the coating to be applied and the condition and hardness of the concrete. Other factors include the forecasted use of the surface and the environment in which it is to be installed. When preparing the surface, use caution when shot blasting around pools, scarifying too aggressively, leaving grind marks or grinding too smooth. The minimum system thickness for this system must be greater than 50 mils.

Crack Treatment

Fill cracks with EC-72 Epoxy Patch Gel. WP-47A Seam Tape may also be used to help reinforce, in which case the EC-72 should be placed into the tape and smoothed with a trowel or putty knife. Broadcast fine silica onto the wet epoxy to provide a surface for the Solar Reflective Finish to bond. EC-72 should be allowed to dry completely prior to slurry coat application. This is a remedial approach to patch cracks and there is no guarantee that cracks will not reappear.

Concrete Repair

For concrete that needs repairs beyond just dormant cracks, TC-23 Mortar Mix can be used. TC-23 is designed to be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material under most Westcoat systems. Please refer to the TC-23 Mortar Mix Product Specification Sheet for details.

Free Style Pattern

Another way to deal with cracks is to cut a pattern using a crack chaser. While the slurry is being installed, clean out expansion joints and cracks with a margin trowel. Then simply incorporate a pattern of "fake cracks" along with the existing cracks, which create the look of flagstone by cutting with a crack chaser into any pattern you choose. The Free Style Pattern is only applicable to on grade applications.

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Primer

Premix each component separately. In a clean bucket, mix 2 parts A with 1 part B (by volume) of EC-11. Mix thoroughly with a low speed (400-600 rpm) drill motor for 3-4 minutes. Make sure to scrape the sides and bottom of the container during mixing. EC-11 can be thinned with water, up to 50%. After mixing, dip and roll or spray and back roll the EC-11 onto the surface at a rate of 250-350 square feet per gallon. Do not allow material to puddle. Allow EC-11 to become tacky and trowel slurry coat into tacky primer. Do not let the primer dry and shell over, as this may prevent the slurry coat from properly adhering. Alternatively, you can roll the EC-11. Immediately broadcast 30 grit silica sand to refusal and allow the EC-11 to dry (1-4 hours at 70F degrees). Remove all loose sand prior to installing the slurry coat.

Slurry Coat

Create the slurry coat by adding one gallon of WP-81 Cement Modifier and up to ½ gallon of water into a clean mixing bucket and add one bag of TC-1W White Basecoat Cement. Mix until uniform with a mechanical mixer at a low rpm. Trowel the slurry mix into the damp primer over the surface to achieve a smooth finish. Each batch will cover 150-300 square feet. Using a brush wet with water, feather all outside edges, seams and expansion joints. Apply the slurry coat continuously, keeping a "wet edge", blending each new mix into the prior mix. Stop only at existing seams in the concrete. After surface is dry, scrape or grind off any ridges or trowel marks. Re-apply slurry as needed to smooth all surfaces, being sure to honor all expansion joints.

Texture Coat

Pour one gallon of WP-81 Cement Modifier in a clean mixing bucket and add one bag of TC-2 Smooth Texture Cement. Mix thoroughly with a mechanical mixer at a low rpm. Add up to ½ gallon of water to achieve the desired consistency. Texture can be sprayed, troweled or broomed at a rate of about 150 to 300 square feet per batch.

After the texture has hardened enough to walk on, scrape and/or slightly sand the surface to even out the look and feel of the texture. A floor buffer with 80-100 grit sand paper is helpful for large areas. Be careful to sand or buff consistently and not to damage the texture. Vacuum, sweep and wash off the excess cement dust and debris.

Topcoat

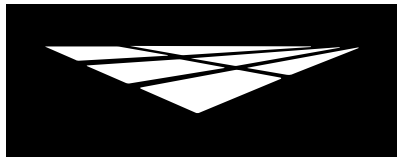
Do not apply if rain is forecast within 48 hours or heavy dew within 24 hours. If multiple batches of SC-10 SR are present, box all materials prior to use, to ensure color consistency. Use a mechanical mixer at a slow speed and mix material until a homogenous mixture and color is obtained. Roll two thin applications of SC-10 SR using a ⅜ inch to ¾ inch roller at a rate of 200-400 square feet per gallon. Roll the material in two directions to achieve a uniform finish. Coverage will vary according to texture. For best results, allow the SC-10 SR 4-6 hours drying time at 70 degrees before permitting light pedestrian traffic or additional coats are applied. Allow 24 hours to cure before heavy traffic is permitted. Allow 48 hours before heavy objects are placed on the surface and allow 72 hours for vehicular traffic. Allow 5 days prior to any abrasion or chemical exposure.

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Optional Materials

Patching

- TC-30 Slope Mix can be used to patch and fill holes in concrete under the Texture-Crete System. Please read the TC Slope & Patch System Specification for details.

Cement Options

- TC-23 Mortar Mix may be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material.

Primer

- WP-81 Cement Modifier diluted one part to four parts water, can be used in lieu of EC-11, when a cost-effective, acrylic primer is desired.
- EC-12 Epoxy Primer can be used in lieu of EC-11, when maximum adhesion and 100% solids epoxy is desired. When using EC-12, apply at 200-300 square feet per gallon and broadcast 30 grit silica sand to refusal.

Skid Resistance

- CA-30 Small Safe Grip or CA-31 Large Safe Grip can be added to the final coat of SC-10 for added skid resistance.

* Please refer to Product and System Specification Sheets for additional information.

Clean Up

Uncured material can be removed with soap and warm water. If cured, material can be removed mechanically or with an environmentally-safe solvent.

Maintenance

Exterior surfaces can be swept daily with water and a broom. For tougher dirt or grease, use degreaser diluted with water 20:1 and a soft bristle brush or broom. Be sure to rinse well. To remove calcium or lime build up, brush diluted 100 grain vinegar onto the surface; be sure to rinse any residue.

The Texture-Crete[®] Solar Reflective Finish System should be inspected for wear every 2 to 4 years. The system should be resealed with the appropriate Westcoat SC-10 SR Series Topcoat every 3 to 5 years depending upon traffic and UV exposure. Contact the original installer of Westcoat for complete re-coating instructions.

Health Precautions

Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation. Cements contain silicas; dust mask or respirator should be used when mixing, sanding or grinding.

Limitations

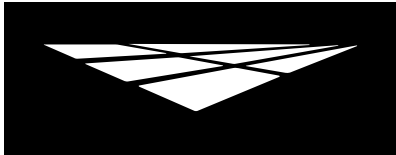
- This system is designed for professional use only.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Do not apply at temperatures below 50°F or above 90°F.
- Rain will wash away uncured Westcoat acrylic products.
- If inclement weather threatens, cover deck to protect new application.
- Sealers will make the surface slippery, please be aware the texture of the surface and how the sealer will affect the look, feel and skid resistance.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Minimum system thickness must be greater than 50 mils.
- Do not allow Westcoat products to freeze.

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Slip Precaution

Westcoat Specialty Coatings Systems highly recommends the use of a slip-resistant additive to all coatings/systems that may be exposed to wet, oily, greasy or slippery conditions. It is the end user's responsibility to provide a flooring system that meets current safety standards. Westcoat and its distributors will not be responsible for injury incurred during a slip and fall incident. For the current coefficient of friction requirements, please consult your local building codes.

Test Data

Test	Texture-Crete [®] Standard
Bond Strength to Concrete (ASTM C297)	278 PSI
Bond Strength after accelerated aging (ASTM C756)	249 PSI
Abrasion Test (ASTM D1242)	11% reduction
Freeze thaw on concrete (ASTM C67)	171 PSI
Concentrated Load (AC39)	No apparent damage
Water absorption (ASTM D570)	6.5%
Percolation Test (AC39 Sect. 4 G)	.25 Inches
Tensile Strength (ASTM C190-85)	855 PSI
Compressive Strength (ASTM C109-88)	5690 PSI
Flexural Strength	1835 PSI
Impact Strength	22 in/lbs
Solar Reflectance - Initial	Gray: 0.69 Tan: 0.74
Thermal Emittance - Initial	Gray: 0.86 Tan: 0.89
SRI (Solar Reflectance Index) - Initial	Gray: 84 Tan: 91

** SC-10 Solar Reflective Acrylic Topcoat is rated to meet the Cool Requirements of California Title 24 when the colors SR Tan or SR Gray are used. Other colors are not rated at this time.*

Solar Reflective Properties

SR Series Color	SRI Value
Butterscotch	84 **
Canvas	84 **
Coconut	71 **
Coral	66 **
Heather Gray	63 **
Lime	78 **
Powder Blue	77 **
Salmon	72 **
Seaside	73 **
SR Gray	84 *
SR Tan	91 *
Wintermint	79 **

* Third-party test data. CRRP Prod. ID# 1316-0001 (SR Gray) & 1316-0002 (SR Tan)

** In-House test data

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