

westcoat[®]
SPECIALTY COATING SYSTEMS

**PRODUCT
SPECIFICATION**

TC

TEXTURE COAT
DECORATIVE TEXTURED SURFACES

TC-27 Level-It™ Cement

Description

Westcoat TC-27 Level-It™ Cement is a professional grade, pourable, self-leveling, cementitious topping that features an “aggregate appearance”. It can be installed from 3/8 to 2 inches thick to smooth, level and resurface indoor concrete.

Uses

TC-27 can provide a high build, quick drying solution for uneven, damaged or unsightly interior floors. It is designed to be used in the Level-It™ System and can be stained, polished or sealed with a variety of Westcoat topcoats or sealers for additional chemical and mar resistance. TC-27 can be installed in both commercial and residential environments.

Advantages

Self Leveling • Fast Drying • High Build • High Strength • Stainable • Can be Polished as Soon as 24 Hours

Product Data			
Packaging	60 lb bags	Color	Gray
Coverages	~16 ft ² at 3/8 inch thick per bag ~12 ft ² at 1/2 inch thick per bag	Mix Ratio	4 1/4 to 4 3/4 quarts of water per 60 pound bag *** Must Mix for a Minimum of 3 minutes per mix ***
VOC Content	0 gm/l	Shelf Life	6 Months in unopened package

Inspection

Concrete 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 2500 psi. The concrete should be porous and be able to absorb water. A minimum of 28 days cure is required for all concrete. Prior to starting work, test existing concrete slab for efflorescence, moisture and hydrostatic pressure.

Moisture

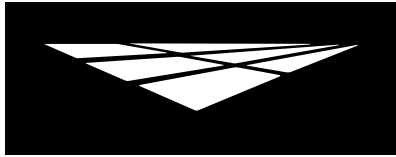
All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 5 lbs/1000 square feet (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), please refer to the EC-15 Moisture Vapor Barrier Product Specification Sheet.

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Preparation

Remove all coatings to a sound concrete base. Prepare concrete to a profile equal to CSP 3-5 as specified by ICRI. Surface and environmental temperature should be between 50F degrees and 85F degrees.

Joints

All joints or moving cracks should be honored up through the TC-27 and treated with an appropriate compound that is designed for moving joints. Failure to properly address joints and moving cracks may cause the TC-27 to fracture or disbond from the substrate.

Crack Treatment

The treatment of dormant cracks can help minimize their appearance through the TC-27, but should movement occur, these cracks may return. Dormant cracks can be treated as follows. Cut out cracks and fill with EC-72 Epoxy Patch Gel. Broadcast #30 silica sand onto the wet epoxy to provide a rough surface for the TC-27 to bond.

Primer

Mix 2 parts A with 1 part B (by volume) of EC-12 Epoxy Primer together for 3-4 minutes with a low speed drill. Be sure to scrape the sides and bottom of the container during mixing. For applications up to ¾ inches thick, immediately apply at a rate of 120-160 square feet per gallon using a trowel or squeegee and then back roll to ensure complete coverage. Promptly, broadcast the surface with #20 silica sand till refusal. This will aid in the adhesion of the TC-27. For applications greater than ¾ inch thickness, it is recommended to apply the EC-12 at 60-100 square feet per gallon and broadcast the surface with #16 silica sand till refusal. Allow ~8 hours to dry (at 70F degrees) and then vacuum all excess sand. Ensure there are no bald or bare spots without sand, before proceeding with the application of the TC-27.

Mixing

Prior to application, acclimate material to 50-75F degrees before use. In a clean mixing vessel, add 4¼ to 4¾ quarts of potable water (DO NOT EXCEED 4¾ quarts of water), then slowly add (1) 60 pound bag of TC-27 and mix thoroughly using a helix/spiral mixing paddle (designed for use with Self-Leveling Cements) for a minimum of 3-5 minutes, ensuring a homogeneous mix is achieved. Do not overmix and avoid moving the mixing paddle excessively, as this can entrap air and may lead to pinholes in the TC-27. Cold water can be substituted in the mix to help extend working time in warmer temperatures. Multiple bag batches can be made if needed and can provide a more consistent result. If an integral color is desired, 1-4 ounces of TC-40 Liquid Colorant may be added to the water addition, prior to adding the TC-27.

Coverage

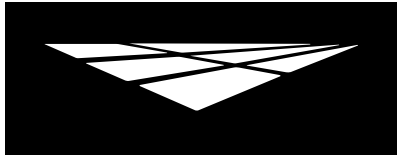
One 60 pound bag will cover ~16 ft² at ¾ inch or ~12 ft² at ½ inch. Coverage will vary depending on use.

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Applying Product

TC-27 can be installed from $\frac{3}{8}$ inches up to 2 inches thick. For foot traffic and light duty areas, apply at a minimum thickness of $\frac{3}{8}$ inch. For medium duty areas with heavier rubber-wheel traffic, apply at a minimum thickness of $\frac{1}{2}$ inch. The maximum thickness should not exceed 2 inches. After thoroughly mixing, pour material onto the substrate and place with a gauge rake to the desired elevation. After placing with a gauge rake, a spike roller can be used to help reduce entrapped air. Do not over work the spike roller. Finally, use a smoother to flatten and finish the surface. If a spike roller is used, a smoother must be used across the entire surface to eliminate discoloration caused by the spike roller. TC-27 has a flow life of 5-10 minutes (@ 70F degrees) and each mix should be tied in within 5 minutes. Always maintain a wet edge.

Dry Time

Light foot traffic may be permitted in 3 to 5 hours @ 70F degrees. Allow a minimum 24 hours before grinding. For best results, allow 72 hours before grinding. The surface should be protected from other trades, dirt and other foreign materials until final topcoat or sealer has fully cured. Do not permit forklifts, scissor lifts or other heavy loads for at least 48 hours. Dry time will vary depending on use and climate.

Clean Up

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

Finish Options

TC-27 can be polished in a similar manner to concrete. Self-leveling toppings do require skilled and experienced applicators to correctly polish. TC-27 can also be ground and sealed for additional protection against chemical agents and a variety of Westcoat topcoats and sealers can be used. For more information on how to finish TC-27, please refer to the Level-It™ System Specifications. Ample sized mockups should be performed to indicate the accurate finish of the floor.

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. Contains portland cement. Wear rubber gloves and eye protection. Avoid eye contact and prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes. Call a physician immediately.

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Limitations

- This product is designed for professional use only.
- Read System Specification Sheets before beginning the project.
- All materials should be kept between 50-75°F.
- Do not apply at temperatures below 50°F or above 85°F.
- Temperatures should remain stable within 50°F to 85°F for at least 72 hours after installation of the TC-27.
- Do not allow any Westcoat products to freeze.
- Not designed to be used for exterior applications or areas with constant water exposure.
- Use dustless equipment when possible.
- TC-27 is not recommended in locations where freezing temperatures may occur.
- TC-27 will produce a highly durable and hard surface, but damage can occur due to impact by metal objects, such as steel casters or wheels, metal equipment or nails projecting out of pallets.
- Westcoat cannot be responsible for issues related to improper joint treatment or cracks.
- Pinholes may occur due to substrate, temperatures, varied batches and application methods.
- TC-27 is designed to have a non-uniform appearance and variances in appearance should be expected.
- Cracking in cementitious overlays can occur and it is not possible to foresee the appearance of cracking in these non-structural slabs. Reflective cracking, map cracking, crazing or hairline cracking may occur. These types of cracking can occur due to numerous reasons, such as vibration, deflection, substrate movement, joints and cracks or rapid evaporation during curing.
- Must mix for a minimum of 3 minutes.

Technical Data

Technical Data	TC-27
Color	Gray
Grade of Sand	Course
Polymer Needed	No, just add water
Stampable	No
Indoor/Outdoor Use	Indoor
Tensile Strength ASTM C307	597
Compressive Strength ASTM C109	4,500
Flexural Strength ASTM C580	2,294
Dry Time (hours)	1-4
Set Time ASTM C266	Initial Set: 30 min. Final Set: 40 min.
Shelf Life	6 Months

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