

SELECTION & SPECIFICATION DATA

Generic Type	Trowel-Applied Epoxy Floor Mortar
Description	A heavy-duty epoxy mortar basecoat. The total system provides a strongly bonded monolithic floor with excellent physical and mechanical properties.
Features	<ul style="list-style-type: none"> • USDA compliant • High compressive strength • Low odor • Integral cove base and curb (optional) • Factory engineered aggregate blend for power and hand trowel applications • Anti-microbial agents are available as an option • Installed as supplied, is compliant with California SCAQMD Rule 1113 for VOC content • Contributes toward satisfying credit MR 5 and EQ 4.2 under LEED
Typical Uses	<ul style="list-style-type: none"> • Heavy manufacturing • Food processing, beverage plants, dairies • Breweries & distilleries • Pharmaceutical & research facilities • High traffic areas (aisleways, loading docks) • Floor sloping
Color	Natural sand color
Primer	<ul style="list-style-type: none"> • Steri-Prime series or Primer 67 series primers • Can be used over Vapor Stop, when encountering high moisture levels or green concrete. <p>Contact your representative for other recommendations or more information.</p>
Dry Film Thickness	<p>190 mils (4826 microns) DFT</p> <p>Can be used for sloping up to 6". Contact your Dudick representative for more information as needed.</p> <p>Sloping: .14 cu ft/mixed gallon</p>
Solid(s) Content	100%
Coverage Rate	11 ft ² per mixed gallon @ 3/16"
VOC Values	As Supplied : 0 g/l
Chemical Resistance	<ul style="list-style-type: none"> • Dilute inorganic acids • Dilute alkali solutions • Cleaning & sanitizing solutions • Mineral oils • Salt solutions
Topcoats	<p>Steri-Flor T Groutcoat must be applied over Steri-Flor T before applying additional epoxy or urethane topcoats</p> <p>Steri-Flor UV, Steri-Flor GP, Steri-Coat P, Protecto-Coat 100XT, or Sealer 35</p> <p>Optional finish coats available depending on exposure, increased UV stability, and durability requirements.</p> <p>Contact your representative for more recommendations.</p>

SUBSTRATES & SURFACE PREPARATION

Concrete	<p>Concrete: Concrete must be prepared mechanically to remove surface laitance. Oils, grease or other contaminant must be removed prior to surface preparation. Concrete must be free of curing compounds and form release agents. Water dropped on the surface should be readily absorbed. Surface texture should be similar to 60-80 grit sandpaper or in accordance with visual standards CSP 3-5 from ICRI. The prepared surface should have a nominal tensile strength of 250 PSI per ASTM D7234.</p> <p>All concrete substrates must be checked for moisture prior to primer application using the Plastic Sheet test, ASTM D4263.</p> <p>Additional surface preparation will be required if the surface laitance not completely removed with first mechanical preparation, even if the minimum profile has been achieved.</p> <p>If mechanical preparation exposes honeycombs or voids, These can be filled with Scratch-Coat 300. Consult your representative for system recommendations</p>
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MIXING & THINNING

Mixing	<p>Components should be mixed in a mortar mixer. The liquids must be thoroughly blended before adding the aggregate. Mechanically premix the premeasured Parts A & B thoroughly for 1-2 minutes before adding to mixer. Gradually add four (4) bags of EA-1 Aggregate and mix 2-3 minutes or until a uniform consistency is achieved. For the first batch, use only 3 1/2 bags to allow the mixer to wet-out.</p> <p>Pour the mixed mortar into a wheelbarrow and transport to each work area. Place mix directly onto the primed concrete for hand trowel applications.</p> <p>Use a wooden straight edge or screed box to initially distribute the material, and finish tightly using steel trowels.</p>
Thinning	<p>Do not thin.</p>
Ratio	<p>2:1 (A:B by volume)</p>
Pot Life	<p>70 minutes at 50°F (10°C) 50 minutes at 75°F (23°C) 40 minutes at 90°F (32°C)</p> <p>The pot life of the system components will depend upon the temperature. To prevent material waste and avoid damage to equipment, do not mix more material then can be used according to the corresponding pot life data.</p>

APPLICATION PROCEDURES

Application

<Hand trowel applications: Pour the mixed Protecto-Crete 140T BC into a wheelbarrow and transport to each work area. Dump directly onto the primed concrete for hand trowel applications. Use a wooden straight edge to initially distribute the material, and finish tightly using steel trowels.

Power trowel applications: the mix should be spread with a screed box to evenly distribute the material in rows. It is preferred to screed out over wet primer. For optimum results, finish the topping with a 48 - 52 inch power trowel within 10-20 minutes of placement. Over-trowelling can lead to blistering and excessive burnishing. Final finishing using a hover trowel (if available) can achieve an extremely smooth and tightly closed surface. Workmen must wear spiked shoes to avoid depressions while power-trowelling. The power and hand trowel blades should be cleaned periodically to remove resin buildup.

To terminate work, square cut the topping and start the next work period butting to this edge. Permanent terminating edges should be beveled into saw cuts in the concrete. Always use appropriate lighting to detect "chatter" marks and trowel mark defects. Allow the product to cure overnight at 75°F (23°C). Hand or power sand to remove tool marks and debris.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	80°F (27°C)	110°F (43°C)	110°F (43°C)	90%

Substrate temperature must be 5°F (3°C) above the dew point.

Application in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Double priming, shading or evening application may be required. Consult with your representative for more information.

CURING SCHEDULE

Surface Temp.	Minimum Recoat Time	Maximum Recoat Time	Cure Time
50°F (10°C)	8 Hours	5 Days	4 Days
75°F (24°C)	5 Hours	3 Days	24 Hours
90°F (32°C)	3 Hours	2 Days	20 Hours

Important: With all epoxies after priming and before each additional coat, examine the surface for amine blush (oily film). If present, remove by washing with warm water and detergent.

TESTING / CERTIFICATION / LISTING

General | Dudick flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation to meet static coefficient of friction requirements for ANSI B101.1 of >0.6 and dynamic coefficient of friction (DCOF)* – Wet ANSI A326.3 of >0.42.

CLEANUP & SAFETY

Cleanup | Use S-10 Cleaning Solvent or Carboline Thinner 2 to clean tools and equipment.

Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal safety precautions. Use adequate ventilation. Keep container closed when not in use.

Steri-Flor[®] T Bodycoat

PRODUCT DATA SHEET



CLEANUP & SAFETY

Ventilation	Ventilation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. Use MSHA/NIOSH approved air respirators as needed.
Caution	Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all Ignitions sources. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Packaging	<u>Repair Kit (20 sq. ft/kit)</u> <i>Packaged together in one 5 gallon pail</i> Part A: 0.19 gal Part B: 0.098 gal Aggregate: 1 x 33.25 lb bag EA-1 Filler Yields approximately 1.75 mixed gallons
	<u>Standard Kit (120 sq. ft/kit)</u> Part A: 1.18 gal Part B: 0.57 gal Aggregate: 4 x 50 lb (23 kg) bags EA-1 Filler Yields approximately 10.5 mixed gallons
	<u>Drum Kit (10,280 sq. ft/kit)</u> Part A: 2 x 50 gal (189 liters) Part B: 1 x 50 gal (189 liters) Aggregate: 343 x 50 lb (23 kg) bags EA-1 Filler Yields approximately 900 mixed gallons
Shelf Life	Part A: 12 months EA-1 Aggregate: 36 months When stored in their original, unopened containers at 50°F-75°F (10°C-24°C). Storage in direct sunlight or excessive heat will reduce working time and shelf life.
Storage	Store all products in a cool, dry area away from open flames, sparks or other hazards. Do not attempt to store mixed material. Residual material should be properly disposed of at the end of each work period. Warning: All Dudick products classified by DOT with either white, yellow, or red labels must not be mixed or stored together as an explosive reaction can occur.

WARRANTY

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