

FASTOP® MULTI SCREED TG69

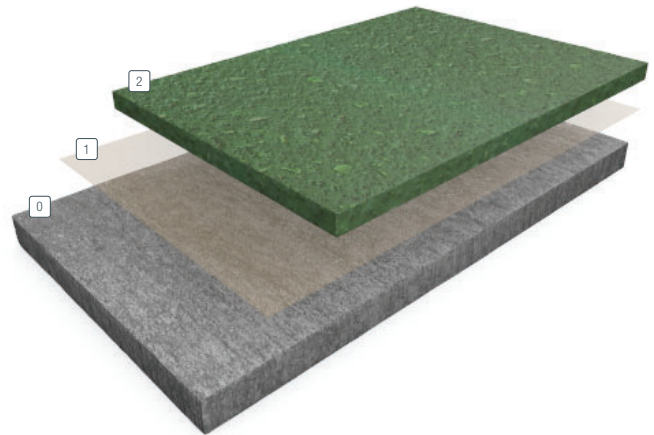
Sherwin-Williams FasTop Multi Screed TG69 is a four-component cementitious polyurethane screed. It is ideal for areas that are subject to extremely heavy mechanical or thermal shock abuse with hygienic demands, such as dairies, bakeries, breweries, slaughter houses, smokehouses, ovens and cold stores where steam cleaning is required.

BENEFITS

- Can be applied to “green” concrete
- Minimal downtime, quick turnaround
- Thermal shock resistant
- No moisture vapor emission testing required
- Unaffected by freeze/thaw cycles
- Wide service temperature range (-50°F to 266°F)
- Optional primer and topcoat
- Impact resistant
- Interior or exterior use
- Acceptable for use in USDA/CFIA inspected facilities

RESISTANCE PROPERTIES

24 HOUR EXPOSURE @ 72°F	RESULT
NE= No Effect DD=Dulling/Discoloration	
Alcohol	NE
Ethylene Glycol	NE
Fats, Oils & Sugars	NE
Gasoline, Diesel & Kerosine	NE
Hydrochloric Acid (10%)	DD
Lactic Acid (Milk)	NE
Mineral Oils	NE
Most Organic Solvents	NE
Muriatic Acid	NE
Nitric Acid (10%)	DD
Nitric Acid (70%)	DD
PM Acetate	NE
Phosphoric Acid (25%)	DD
Potassium Hydroxide (<50%)	NE
Sodium Hydroxide (50%)	NE
Sulfuric Acid (25%)	NE
Water	NE
Xylene	NE



- 0 Substrate - Concrete/ cementitious screed
- 1 Primer - GP3477 Water Emulsion Primer
- 2 Screed - Fastop Multi TG69

USES

- Cagewash areas, chemical processing plants
- Commercial kitchens, dairy plants
- Meat and poultry plants, pulp and paper plants
- Restrooms and concession stands
- Sugar processing plants, walk-in coolers
- Walk-thru autoclaves, wastewater treatment facilities

TYPICAL PHYSICAL PROPERTIES

Color	Refer to color pack color card
Working Life, mixed @ 77°F	15-20 Minutes
Cure Time @ 70°F	Recoat 3-5 Hours Foot Traffic 7-8 Hours Full Service 12 Hours
Tensile Strength ASTM C 307	968 psi
Compressive Strength ASTM C 579	6,432 psi
Flexural Strength ASTM C 307	1,634 psi
Coefficient of Thermal Expansion	<38 PPM
Hardness ASTM D2240	74
Reaction to Fire	Bfl - s1
Bond Strength ASTM 7234	511 psi
Impact Resistance	Withstands 16 ft lbs MIL-D-3134, Sec.4.7.3 without cracking, delamination or chipping
Abrasion Resistance ASTM D4060	46 mgs
Slip Resistance ASTM E303	0.8 DCOF
Service Temperature @ 3/8" application	-50°F to 266°F

LIMITATIONS

The substrate must be structurally sound and cleaned of any foreign matter that will inhibit adhesion.

Do not apply in temperatures below 40°F or above 90°F or when relative humidity is greater than 85%. Do not apply to non-reinforced sand cement screeds, asphaltic or bitumen substrate, glazed tile or nonporous brick, tile, or magnesite, copper, aluminum, soft wood, existing coatings of epoxy, polyester, or urethane composition, elastomeric membranes or fiber reinforced polyester (FRP) composites.

Protect substrate during application from condensation from any overhead leaks.

- Do not apply to overhead surfaces.
- Do not featheredge.
- Do not hand mix.
- Do not apply to cracked or unsound substrates.

Full chemical resistance is achieved after a seven (7) day cure. Consult the Sherwin-Williams Technical Service Department for specific chemical resistance.

If using without broadcast media, primer is required.

INSTALLATION

Sherwin-Williams materials shall only be installed by approved contractors. The following information is to

be used as a guideline for the installation of the FasTop Multi Screed TG69 Urethane Mortar System. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

SURFACE PREPARATION

Sherwin-Williams FasTop Multi Screed TG69 Urethane Mortar System is normally applied to concrete but may be successfully applied to mild steel and wood block. Surface contaminants and/or weak spots must be removed, and a clean, hard surface must be exposed to ensure proper bonding to the substrate.

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile equal to CSP 4-6. Refer to Form G-1. Consult the Sherwin-Williams Technical Service Department if oil or grease is present.

After initial preparation, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a Sherwin-Williams system filler. For recommendations, consult the Sherwin-Williams Technical Service Department.

APPLICATION INFORMATION - SURFACE PREP PROFILE CSP 4-6

VOC MIXED	APPLICATION STEP	MATERIAL	MIXED RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
0<50 g/L 0	Cove Base	FasTop Multi Cove Base Aggregate	2.0 kg Mix (A+B) 30 lbs	20-33 linear ft @ 6" cove 1" radius	2.0 kg Sold Only in 30-lb Units
<75 g/L	Primer	3477	2:1	250 sq ft / gal	3 or 15 gals
<50 g/L 0	Mortar	FasTop Multi TG69 Aggregate	5.0 kg Mix (A+B) 55 lbs	26 sq ft / unit @ 1/4" 17 sq ft / unit @ 3/8"	5.0 kg 55 lbs

SERVICE TEMPERATURE

Throughout the application process, substrate temperature should be 40°F to 90°F. Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrates should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight if possible.

EXTREME CONDITIONS

Ideal conditions for mixing and laying the FasTop Multi Screed TG69 Urethane Mortar System is between 40°F and 90°F. Do not apply when temperatures are below freezing. FasTop Multi Screed TG69 has a very short pot life above 90°F.

COLD TEMPERATURES BELOW 40°F

Keep materials stored and mix in 60°F to 70°F conditions. Protect application area with cover or tent. Flame heat concrete immediately ahead of layers. Use hot air blowers to raise temperature under cover or tent. Maintain air temperatures for at least 4-6 hours after laying. Allow a longer time period for the FasTop Multi Screed TG69 to reach an operating strength (24-48 hours depending upon substrate and ambient air temperatures).

HOT TEMPERATURES ABOVE 90°F

Keep materials stored and mix them in an air-conditioned environment of 60°F to 70°F. Do not lay the FasTop Multi Screed TG69 in direct sunlight. Shade with a tarpaulin or similar material. Work early and/or late, and preferably at night if daytime temperatures are extreme.

EXPANSION JOINTS

Expansion joints should be provided in the substrates at the intersection of dissimilar materials. Isolate areas subject to thermal stresses, vibrational movements or around load-bearing columns and at vessel sealing rings. All cracks should be routed out and filled with FasTop Multi Screed TG69 prior to floor application. Large cracks may require treatment at expansion joints with an elastomeric sealant.

COVE BASE

Cove base should be installed prior to the floor. Tape out cove with duct tape or a good quality masking tape. Terrazzo strips will also work.

MIXING: Do not mix partial units, the fine aggregate and pigment can and will separate. A drill and a paddle work the best, but a KOL mixer works well also. Mix 1.0 kg of Part A with 1 color pack until uniform. Add 1.0 kg of Part B and mix. Slowly add aggregate and mix until thoroughly wet out. Immediately pour mixed material out of bucket, in a bead, next to the wall. Rough apply cove mortar using a trowel. Do not worry about trowel marks at this time; just get all the mixed material applied to the wall. Material will need to be finished within approximately 20 minutes depending on temperature. Placing a halogen light next to cove base will cast shadows and assist on finishing the cove base with minimal waves and/or trowel marks. Use a minimum of a 3/4" radius cove trowel and finish cove base. Any smaller may result in a loss of the radius once the floor is tied in. Lightly misting cove trowel with window cleaner, as a trowel lube, works well. Do not use isopropyl alcohol. Carefully remove tape and finish rough edges. Install floor once cove is hard to the touch, about 2 ½ to 3 hours.

REQUIRED TOOLS: Drill, proper mixing paddle, 3" x 8" trowel works best to apply, margin trowel, and a radius cove trowel. Minimum of 3/4" but 1" is preferred.

MORTAR

MIXING AND APPLICATION

MORTAR - MIXING:

1. Add 2.5 kg Part A (resin) with 1 color pack. Mix until uniform. Add 2.5 kg Part B and mix with low speed.
2. Pour one bag, 44 lbs pre-measured unit, into container and mix until no lumps remain.

MORTAR - APPLICATION:

Immediately after mixing, spread the screed by hand trowel or screed box onto the primed floor, slightly thicker than the required thickness. Spike roll to release air and help material to level. If necessary, assist leveling with a steel trowel. When a more aggressive texture is required, broadcast Nature Quartz on the surface before curing in order to incorporate the antislip aggregate in the flooring.

CLEAN UP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

SAFETY

Refer to the SDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

MATERIAL STORAGE

Store materials in a temperature controlled environment (40°F to 90°F) and out of direct sunlight.

Keep resins, hardeners and solvents separated from each other, and away from sources of ignition.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Sherwin-Williams Technical Service Department.

DISCLAIMER

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams.

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