

FLOOR-TOP® STG

Standard-Grade, Self-Leveling Topping/Underlayment

DESCRIPTION

FLOOR-TOP STG is a standard traffic-grade, single-component, shrinkage-compensated, self-leveling floor topping and underlayment that may be pumped or poured. FLOOR-TOP STG is specially designed to smooth out uneven, rough or minor deteriorated interior concrete floors.

USES

FLOOR-TOP STG is ideal for smoothing out and leveling concrete and rigid-based interior substrates prior to the application of a flooring system or coating. FLOOR-TOP STG cures to a hard, traffic-wearing surface suitable for foot and light rubber-wheeled traffic. FLOOR-TOP STG may be color enhanced with integral colors, dyes, coatings, sealers, or acid stains. The product is designed for residential, commercial, retail, and office applications. It is not suitable for steel-wheeled traffic or forklift applications.

FEATURES/BENEFITS

- May be applied up to 1" (25.4 mm) thick in a single application.
- Single-component; only requires addition of water.
- May be poured or pumped.
- Specifically designed for fast leveling of floors.
- May be acid stained or dyed.
- Suitable for engineered wood flooring systems.
- Accepts early foot traffic.
- Floor covering may be installed in as little as 18 hours.
- May be used with radiant heating floor systems.
- Compatible with LIQUI-HARD® concrete densifier and chemical hardener from W. R. MEADOWS.

PACKAGING

50 lb. (22.7 kg) bags. FLOOR-TOP STG PRIMER is available in one-gallon (3.78 L) units (four per case) or five-gallon (18.9 L) plastic pails with pour spout.

COVERAGE/YIELD

Yield per 50 lb. (22.7 kg) bag is 0.50 ft.³ (0.014 m³).

Depth Inches (mm)	Ft. ² (m ²) per 50 lb. (22.7 Kg) Unit
1/8 (3.17)	50 (4.65)
1/4 (6.35)	25 (2.32)
3/8 (9.52)	18.75 (1.74)
1/2 (12.7)	12.5 (1.16)
1 (25.4)	6.25 (0.58)

Yields listed above will vary based on substrate profile, variations in mix water amounts, and waste. Field trials should be performed to determine yields based on actual jobsite conditions. Note: FLOOR-TOP STG is a self-leveling product and will level to the slope of the floor; therefore, it is not practical to apply a uniform depth on a sloped floor. Meaning, if the desired minimum application depth is 1/4" (6.35 mm) and the slope of the floor is 1/2" (12.7 mm) from end to end, then the actual application will be 1/4" (6.35 mm) to 1/2" (12.7 mm) for an average depth of 3/8" (9.52 mm).

FLOOR-TOP STG PRIMER yields 400 ft.² /gal. (5 m²/L) undiluted, depending on the porosity of substrate.

SHELF LIFE

Store on pallets in a cool, dry location. Do not store product outdoors. Shelf life of properly stored products is one year from date of manufacture when stored in unopened, original packaging.

CONTINUED ON REVERSE SIDE...

FINISHED APPEARANCE

Light gray. This is a natural mineral-based material and therefore color variations and imperfections are normal, which enhance the overall appearance of the natural look. If FLOOR-TOP STG is to be left exposed, a test-board should be made prior to application to ensure that all the appropriate parties are satisfied with the final appearance. This procedure is a very common practice in the flooring industry.

TECHNICAL DATA

The following physical properties were determined using the water-to-powder ratio of 5.75 quarts (5.19 L) per 50 lb. (22.7 kg) bag at 72° F (23.5° C).

Set Time Per ASTM C 191	
Initial	60 minutes
Final	90 minutes
Working Time	30 minutes
Heal Time	20 minutes
Compressive Strength Per ASTM C 109	
@ 1 day	2300 psi (15.8 MPa)
@ 7 days	3000 psi (20.7 MPa)
@ 28 days	5500 psi (37.9 MPa)
Flexural Strength Per ASTM 348	
@ 1 day	500 psi (3.45 MPa)
@ 28 days	1000 psi (6.9 MPa)
Drying Time	
Time to light foot traffic	4 hours
Time to application of flooring system	18-24 hours
Application thickness	1" (25.4 mm) in single application
All technical data is typical information and will vary due to testing methods, conditions, and procedures. Reasonable variations can be expected.	

APPLICATION

For Best Performance ... FLOOR-TOP STG shall not be used as a repair mortar. Do not apply when the ambient, substrate of product temperature is below 65°F (18.3°C). Protect from freezing. Product is designed for interior applications; do not use in exterior applications. Do not allow excessive water loss due to heat, sun, or wind. Do not add any admixtures. Do not featheredge. Exceeding liquid requirements shall result in reduced physical properties. Realize that set time, working time, and heal time will decrease as the product, air, substrate, and mixing liquid temperature increases. FLOOR-TOP STG is not suitable for wet, submerged, or similar environments. Sealing FLOOR-TOP STG

will increase traffic-wearing service life. FLOOR-TOP STG which has been color-enhanced should be sealed with a 100% all acrylic sealer designed for architectural concrete, such as DECRA-SEAL® W/B from W. R. MEADOWS, after final set. Failure to follow industry standard practices may result in decreased material performance.

Subfloor Preparation ... Repair subfloor with MEADOW-CRETE® or MEADOW-PATCH® repair products from W. R. MEADOWS 24 hours prior to application of FLOOR-TOP STG. Any defects in the substrate will propagate through to the surface. Do not bridge moving cracks. Extend existing control and expansion joints through FLOOR-TOP STG. Fill all non-moving, dry cracks with REZI-WELD™ LV from W. R. MEADOWS immediately prior to application of FLOOR-TOP STG.

Prepare concrete substrate in accordance with International Concrete Repair Institute (ICRI) Technical Guideline #310.2-1997: Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays. Mechanically roughen or high pressure water-jet existing concrete substrate to a minimum concrete surface profile (CSP) of CSP-4 or higher. Remove all unsound concrete and provide a profiled surface. Substrate must be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants that will adversely affect bond. Sanding, grinding or wire-abrading are not approved surface preparation methods. New concrete floors should have fully achieved designed compressive strength and be a minimum 28 days old.

Determine the moisture content and water vapor transmission rate of the subfloor prior to application of FLOOR-TOP STG. Floors must be completely dry and have a water vapor transmission rate < 3 lb./1000 ft.² (1.36 kg/92.9 m²) per 24 hours using a calcium chloride test (ASTM F 1869). The moisture content or water vapor transmission rate shall be determined to be acceptable for standard flooring systems and coatings prior to application of FLOOR-TOP STG.

The wood flooring system must conform to the requirements of "engineered approved wood subfloors" such as the National Floor Covering Association's floor covering specification manual. The wood floor must be sound and have no movement due to deflection. Such subfloor wood underlayments include APA-rated Group 1 exterior grade plywood, CC-plugged or better conforming to US Product Standard PS-1 or COFI-Classified SELECT or exterior grade plywood conforming to CSA-0121 Standard for Douglas Fir. Use metal or synthetic lath in conjunction with the properly designed wood floor.