PRODUCT DATA

W. R. MEADOWS
SEALTIGHT

CSI Code: 03 54 13

NO. 400

NOVEMBER 2008
(Supersedes October 2007)

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 deteriorated interior concrete floors.

USES

This product 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 color, dyes, coatings, sealers, or acid stains.

FEATURES/BENEFITS

- May be applied up to 1" thick in a single application.
- Single-component; only requires addition of water.
- Very flowable/Can be poured or pumped.
- Specifically designed for fast leveling of floors.
- May be acid stained.
- Accepts early foot traffic (four hours).
- Floor covering may be installed in as little as 18 hours.
- May be used with radiant heating floor systems.
- Compatible with LIQUI-HARD®

PACKAGING AND YIELD

50 lb. (22.7 Kg) bag yields 0.50 ft.^{3} (0.014 m^3).
Yields listed above will vary based on substrate profile, aggregate, variations in mix water amounts, and waste. Field trials should be performed to determine yields based on actual jobsite conditions.

Color: Light Gray.
FLOOR-TOP PRIMER is available in one-gal. (3.78 L) units (four per case) or five-gal. (18.9 L) plastic pails with pour spout. FLOOR-TOP PRIMER yields 200-400 ft.^{2}/gal. (5-10 m^2/L) depending on porosity of substrate.

SHELF LIFE (TYPICAL)

Twelve months when stored on pallets in a dry, cool area.

TECHNICAL DATA

The following physical properties were determined using the water-to-powder ratio of 5.5 qt. (5.19 L) per 50 lb. (22.7 kg) bag at 72º F (23.5º C).

Set Time Per ASTM C 191	
Initial	60 minutes
Final	90 minutes
Working Time	30 minutes
Heal Time	15 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" in single application
3/8" minimum when left unprotected to foot and light rubber-wheeled traffic. ¼" minimum for coated. 1/8" minimum for floor coverings.	

All technical data is typical information, but may vary due to testing methods, conditions, and procedures. Seasonable variations can be expected. Designed for residential, commercial, retail and office applications. Suitable for foot and light duty rubber-wheeled traffic. Not suitable for steel-wheeled traffic or industrial forklift applications.

LEED INFORMATION

May help contribute to LEED credits:

- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally

CONTINUED ON REVERSE SIDE…

W. R. MEADOWS, INC.
P.O. Box 338 • HAMPSHIRE, IL 60140-0338
Phone: 847/214-2100 • Fax: 847/683-4544
1-800-342-5976
www.wrmeadows.com

FOR BEST PERFORMANCE

Reference application guide prior to use. FLOOR-TOP STG shall not be used as a repair mortar. May be used over rigid wood flooring systems. Do not apply below 40° F (4° C) or above 95° F (35° C). Protect from freezing. Designed for interior applications. Do not use in exterior applications. Do not allow excessive water loss due to heat, sun or wind. Do not bridge moving cracks. Extend existing control and expansion joints through 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 m^2) per 24 hours using a calcium chloride test (ASTM F 1869). 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 and will be increased as the temperature decreases. Flooring adhesives compatible with concrete may be used with FLOOR-TOP STG. 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, after final set. Failure to follow industry standard practices may result in decreased material performance. Proper application is the responsibility of the user. Field visits by W. R. MEADOWS personnel are for the purpose of making technical recommendations only, and are not to supervise or provide quality control on the jobsite.

SUBFLOOR PREPARATION

Repair subfloor with MEADOW-CRETE® repair products 24 hours prior to application of FLOOR-TOP STG. Fill all non-moving, dry cracks with REZI-WELD™ LV immediately prior to application of FLOOR-TOP STG.

Perform surface preparation in accordance with standard ACI recommendations. W. R. MEADOWS recommends light mechanical abrading of the existing substrate to remove all unsound concrete. This process can proceed through shot blasting, high pressure water-jetting (2500 psi minimum pressure), or other suitable mechanical abrasion means to achieve removal of all contaminates, coatings and adhesives. Do not acid etch or power sand substrate. Substrate must be structurally sound, rigid and free of any contaminants that will adversely affect bond. Prepared surface must be dust-free. Concrete floors should have fully achieved designed compressive strength.

Determine the moisture content and water vapor transmission rate of the subfloor prior to application of FLOOR-TOP STG. 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.

PRIMING

Shake or mix primer prior to use. Dilute the high solids FLOOR-TOP STG PRIMER by 1 to 1 by volume with cool, potable water. One gallon of undiluted primer will yield two gallons of usable primer. Apply FLOOR-TOP STG PRIMER at a rate of 200 ft.^{2}/gal. (5 m^2/L) using a roller or garden-type sprayer. Two applications of the diluted primer may be needed depending on substrate porosity. If two coats are required, allow the first coat of diluted primer to completely dry prior to application of second coat. Also, allow diluted primer to completely dry prior to application of FLOOR-TOP STG. The dry time will vary with temperature and humidity, but is typically 1-3 hours. Do not puddle or pool the diluted primer.

The diluted primer must be used within 72 hours after dilution; any remaining diluted primer must be discarded in accordance with local, state, and federal regulations. The diluted primer should be mixed prior to use.

MIXING

Mix only complete bags. Mix 5.5-6.25 qt. of potable water per 50 lb. bag of FLOOR-TOP STG powder. Add required amount of water to the mixing vessel. Then slowly add FLOOR-TOP STG while mixing with a combination low speed, heavy-duty drill (minimum 650 rpm) and Jiffy (PS-2 type) paddle or eggbeater mixer. Mix for 2-3 minutes or until homogenous and lump-free. Do not over mix. Overmixing or moving the mixer up and down during mixing process will cause air entrapment, which will shorten the pot life and heal time and result in pinholes during the application and curing process.

FLOOR-TOP STG may be mixed through a continuous rotor-stator type mixer and pump combination for larger areas. To achieve a more efficient application. W. R. MEADOWS, INC. recommends the Machine Technologies D-25 Continuous Mixer and P-25 Mortar Pump for continuous pumping applications.

PLACEMENT

Ensure all doors and windows are closed to prevent drafts. Protect areas from direct sunlight. Make sure concrete substrate and ambient room temperature are at least 40° F (4° C) and below 95° F (35° C) before application. For temperatures above 85° F (29° C), follow ACI hot weather application guidelines.

Pour or pump properly mixed FLOOR-TOP STG onto properly prepared and primed surface in a ribbon pattern. Maintain a wet edge at all times. If a wet edge cannot be maintained, reduce the width of the pour.

Immediately after placement, spread the material with a gauge rake set to desired depth. After achieving the desired depth, smooth with a smoothing tool, such as a Majic Trowel from TexMaster Tools.

PRECAUTIONS

Avoid inhalation of dust. Avoid direct contact with this product. Utilize gloves and safety glasses to minimize direct contact. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children. For industrial use only. Refer to Material Safety Data Sheet for complete health and safety information.

LIMITED WARRANTY

"W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order." Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

