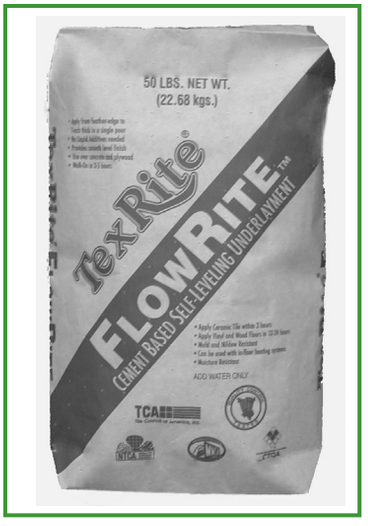
FLOWRITE

Self-Leveling Underlayment

Product Information



FLOWRITE is a Portland cement based polymer modified Self-Leveling Underlayment for applications from featheredge to one-inch thick. With the addition of water only, it becomes a free-flowing liquid. The resulting finish is a smooth and durable surface that is acceptable for the installation of all floor coverings.

BASIC USE

FLOWRITE is used anywhere concrete or plywood surfaces must be leveled or smoothed before the application of ceramic tile, stone, wood, carpet or resilient floor coverings. ***FLOWRITE*** can also be used in rehabilitation projects where old terrazzo, ceramic tile, wooden floors and steel decking must be made ready for new floor coverings.

AREA OF USE

FLOWRITE may be used in interior applications where a permanent water-resistant surface is required for receiving decorative floor coverings. ***FLOWRITE*** hardens quickly by hydration. Surfaces can be walked on in 3-5 hours and can have floor coverings installed within 12-24 hours. When cured, the finished underlayment will have similar properties to concrete.

LIMITATIONS

FLOWRITE must not be used over gypsum-based surfaces, old adhesive residue, paints, particleboard, stripwood, plastics, vinyl, elastomeric membranes and epoxy or urethane floor coverings. Use in temperature range of 40º F to 100º F (Do not allow mortar to freeze for the first 72 hours). FlowRite shall never be applied to any surface unless it has been previously primed with ***FLOWRITE*** Primer to increase adhesion to the substrate and allow the underlayment to retain water for improved flow and higher strengths. FlowRite shall not be used as a wearing surface. ***FLOWRITE*** is for interior use only. Do not use ***FLOWRITE*** over substrates subject to hydrostatic pressure.

PACKAGING

COLOR:	Gray
TEXTURE:	Powder consisting of Portland Cement, graded sand, organic and inorganic chemicals.
PACKAGING:	50 lbs. multi-wall bags.
PRIMER LIQUID:	Free flowing white liquid.
PACKAGING:	Primer 1 gallon container, four 1 gallon/case.

INSTALLATION

PREPARATORY WORK

All surfaces to receive ***FLOWRITE*** must be structurally sound. Floor systems, including the framing system and subfloor panels in wood construction, over which ***FLOWRITE*** will be installed shall be in conformance with the IRC for residential applications, the IBC for commercial applications or applicable building codes. Surfaces shall be free of dust, grease, wax, sealers, old adhesive and cut back residue, curing compounds, oils, gypsum based underlayments, surface hardeners, paints, old flooring, and other foreign material before application of primer.

CONCRETE FLOORS

Concrete shall be completely exposed, fully cured, free of efflorescence, moisture and hydrostatic pressure (moisture test should be done prior to application). Chip, sandblast or hammer out any spalled unsound concrete. Clean off any resulting dust. Hard troweled concrete must be acid-etched using a 10% muriatic wash. It is important that the acid sludge be thoroughly neutralized with a dilute solution of TSP or Baking powder (one pound per 5-gal. water) and flushed from the floor with clean water . Next, prime the clean surface with ***FLOWRITE*** Primer diluted 1 to 1 with water. Apply an even coat using brush or broom. On extremely porous concrete, two applications may be required. Allow Primer to dry to a tacky surface before applying ***FLOWRITE***. Reapply Primer if first application is allowed to dry past 24 hours.

PLYWOOD

Plywood surfaces shall be of exterior grade, and when placed over conventional floor joists, shall be of a design and thickness to provide a secured rigid substrate base. Allow a gap of 3/16" to 1/4" between sheets of plywood. Fill these gaps with TexRite Caulk. The plywood sub-floor is to be primed using FlowRite Primer dilluted 1 to 1 with water. After the primer has dried, nail or staple an approved thin, plastic lath or galvanized metal lath to the floor. Next; mix ***FLOWRITE*** according to instructions and apply at no less than ¼" or more than 1-inch thickness.

SPECIAL SURFACES

Marble, cement based terrazzo and existing ceramic tile surfaces must be well bonded to the sub-floor, cleaned of any waxes, dirt, greese and mildew, and abraded to a rough surface prior to priming. Prime the surface with the following slurry: Mix one part ***FLOWRITE*** Primer with one part water and two parts ***FLOWRITE*** Powder. Apply this slurry to the substrate and let dry to a tacky surface. If allowed to dry 24 hours, re-apply. Next; mix and install ***FLOWRITE*** as normal.

MIXING

Mix one 50 lb.bag of ***FLOWRITE*** with 5 quarts of clean water. An exact and accurate measurement of water is required to avoid overwatering and delamination. Always add the powder to the total amount of liquid and mix with a 650-RPM power mixer until a lump-free mix is obtained. Experience shows that it is best to mix only 2 bags of ***FLOWRITE*** at a time, pour this on the floor, then mix as many additional 2 bag batches as necessary to complete the job. For information on pumping ***FLOWRITE***, consult Texas Cement's Technical Department.

APPLICATION

Pour the underlayment approximately in place and finish using an adjustable mortar spreader. Spiked shoes should be used if it is necessary to walk in the fresh mortar. A finish blade may be used for feather edging. ***FLOWRITE*** will have a flow time of approximately 12-15 minutes. Ceramic tile installed with a TexRite Dry-Set Mortar system may be installed on FlowRite when the mortar is firm enough to walk on. ***FLOWRITE*** shall only be applied over substrates that are between 40º F and 100º F. Do not allow ***FLOWRITE*** to freeze for the

TEXAS CEMENT PRODUCTS, INC.

4000 Pinemont
Houston, Texas 77018 USA

Phone: 713-682-8411
Toll Free: 800-669-0115
Fax: 713-688-2448
texrite.com & texascement.com

FLOWRITE

Self-Leveling Underlayment

TexRite®

Product Information

first 72 hours. If FlowRite is to be applied in multiple pours, allow to cure 24 hours and re-apply ***FLOWRITE*** primer to each previous layer prior to application of subsequent pours. When multiple pours are to be used to achieve an entire floor thickness of 2" or greater, it is recommended that a mortar bed be detailed by an architect.

Applications in Large Areas: After primer has been applied and is sufficiently dry, mix and apply ***FLOWRITE*** in narrow single swaths accross the entire area. Use spreader tool to drag any excess ***FLOWRITE*** to adjcent area where the next swath will be poured; establishing the required thickness as work progresses. Keep repeating this procedure until the entire area has been leveled. Always pour freshly mixed FlowRite into the edge of a previous pour that is still in the flow cycle. This way repeated poured swaths will blend together.

COVERAGE

Will be approximately 50 to 55 square feet per 50-pound bag at 1/8" thickness.

EXPANSION JOINTS

Expansion joints, contraction joints (saw cuts), construction joints (cold joints) and structural cracks shall never be bridged over with ***FLOWRITE***. They should continue through the FlowRite and subsequent tile work. Provide movement joints 20-25 ft. in each direction. Where floor is exposed to direct sunlight, provide movement joints 8-12 ft. in each direction. Install perimeter joints where ***FLOWRITE*** abuts restraining surfaces such as perimeter walls, dissimilar floors, curbs, columns and pipes. An architect or structural engineer must specify expansion joints and show location and details on drawing.

CLEANING

Water is all that is needed to remove uncured FlowRite.

CURING

A minimum cure is obtained in 12-24 hours, depending on ambient temperatures. As with concrete, the strength increases significantly with age during the first 28 days. Always check for moisture prior to installation of vinyl flooring.

Technical Data: ***FLOWRITE***

Test	Typical Results
Working Time @ 72°F	12 minutes
Initial Set Time @ 72°F	15- 20 minutes
Final Set @ 72°F	60-90 minutes
Compressive Strength (psi) (ASTM C109)	
28 Days	4200psi
Flexural Strength (ASTM C-348) 28 days	1000psi
Tensile Strength (psi) ASTM C-190 28 days	550psi

Storage Life - One year if kept dry in sealed container and bag.

SAFETY - CAUTION: May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Recommend use of a NIOSH approved mask for silica dust. Contains Portland cement. If any cement or cement mixtures get into the eye, flush immediately and repeatedly with water, and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.

KEEP OUT OF REACH OF CHILDREN.

FlowRite