

FloroSurface Underlay Self-Leveling Underlayment

Product Description: FloroSurface Underlay is a modern formula portland and aluminate cement based self-leveling underlayment, fortified with latex polymer designed to level or smoothen properly prepared horizontal concrete substrates. An extended open time allows for easier installation and a more consistent appearance. FloroSurface Underlay leaves a finished surface capable of withstanding temporary construction traffic and is an ideal substrate for most floor covering systems.

Typical Uses, Applications:

- Excels at leveling large areas
- Helps prepare substrates such as concrete, well-bonded, abraded mortars and ceramic tiles for subsequent installation of resinous coatings, carpet, resilient floors, wood parquet, slate, ceramic tile, marble, granite, or stone veneer floors
- Other possible substrates include properly prepared exterior grade plywood, cement board, anti-fracture membranes, insulating panels and other approved board materials.

Product Advantages:

- Long working time—flowable for approximately thirty (30) minutes
- May be poured up to 1.5" (1.27 cm) thick
- LEED point contributing and eco friendly
- "Self-healing"—excellent workability
- Depth may be extended with addition of approved aggregate
- Withstands construction/ renovation traffic
- An economical solution to smoothen and level floor

Colors: FloroSurface Underlay is available in a Medium Grey

System Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	5,000 psi
Tensile Strength	ASTM D638	420 psi
Flexural Strength	ASTM D790	1,200 psi
Workable Life	1 Mixed Kit	30 minutes
Cure time at 70° F (21° C) @ 50% RH		
Set Time		1-2 hours
Ready for Covering*		8-24 hours*
Ready for Coatings*		7 days*

*Thicker applications will result in extended times.

Packaging:

- FloroSurface Primer
 - 5 gallon (18.93 L) pail with pour spout
- FloroSurface Underlay
 - 50 pound (22 kg) double walled bag

Storage: All containers should be stored at 45° F to 85° F (7° C to 29° C) and be kept tightly sealed and out of direct sunlight. The shelf life for this product is 12 months from date of manufacture.

Coverages:

- FloroSurface Primer-- 250-300 SF/gallon (6.1-7.3 m²/L)
- FloroSurface Underlay—47 SF/bag (4.36 m²/bag) for 1/8" (3.0 mm) thickness. One 50 pound bag will yield 0.47 cubic feet (0.0133 cubic meters).

Installation Limitations:

- FloroSurface Underlay is designed for interior use. Material may be pumped, but mixing must be continuous and pump and hose should be cleaned immediately.
- DO NOT USE where surface or air temperature falls below 50°F (10°C) or exceeds 85°F (29°C) within 72 hours after installation.
- DO NOT USE when finished floor is subject to freezing (32°F or 0°C) any time within 7 days.
- DO NOT USE where hydrostatic pressure is present or moisture emissions exceed levels permitted for an installed floor covering (see Florock FloroProof data sheet for details).
- DO NOT USE over dimensionally unstable materials or any poorly bonded or structurally unsound substrate. If unsure, consult local Florock rep for more details.
- DO NOT USE over metal, gypsum floor patches or materials, petroleum or solvent residue or spills, or other contaminants.

Substrate Preparation: All areas must be primed with FloroSurface Primer to ensure best performance and maintain warranty (use of other primers voids all warranties). Supporting surfaces shall be structurally sound, solid and stable, and free of dust, oil, grease, paint, tar or other contaminants that may act as a bond breaker. Application over textured surfaces provide the best bond. Concrete that has been steel troweled should be mechanically prepared using a shot-blaster, diamond grinder, or other approved method. A minimum CSP 3 (Concrete Surface Profile, Level 3) is recommended.

FloroSurface Underlay System Application:

1. FloroSurface Primer—Shake or stir primer before application. Using a long-handled roller, soft bristle broom or paint brush, apply full strength FloroSurface Primer at a rate of 250-300 SF/gallon (6.1-7.3 m²/L). Evenly coat the entire surface. Allow to dry until tacky—approximately 1 hour. Do not apply in excess; avoid puddling or pooling. FloroSurface Primer must tacky before proceeding.

2. FloroSurface Underlay —**MIXING:** In a clean, dry mixing container, blend 5 quarts (4.73 L) of clean, cool water for every 50 pound bag (22 kg.) of powder. As bags are first added, begin mixing at a slow speed (150-450 RPM) using a mixing paddle mixer or similar tool designed to avoid air entrapment. Once material is well wetted by liquid, mixing speed may be increased to 1000-1200 RPM. Again, avoiding air entrapment, mix 2-3 minutes to a homogenous, lump-free mixture. Do not shake. FloroSurface Underlay can be mixed in large quantity mortar mixers or special pumps, or in smaller quantities (up to 2 bags at a time) in a 40 gallon container. If problems occur in obtaining a homogeneous mixture with the mixing device, try starting with 2/3 of water quantity, adding powder until just wetted, then adding remainder of water, followed by thoroughly mixing. A screen may also be used in large scale mixers.

APPLICATION—After allowing air bubbles to rise to the top for 1-2 minutes, pump or pour entire container of mixture onto the prepared concrete floor. Do not over-water, re-temper or add water. FloroSurface Underlay is highly flowable for 25-30 minutes at 70°F (21°C). It can be spread with a screed rake set to appropriate depth. Material can be worked or walked through after 30 minutes, but may require smoothing. Once FloroSurface Underlay begins to set (approximately 45 minutes), stay off the floor until completely set. If a fine edge is desired, edge should be steel troweled after initial set but before completely hard. The underlayment hardens in 1-2 hours and is ready for floor covering within 8-24 hours. Plan the pour before starting. Begin at a corner of room or at a deep part of fill. Either work back and forth along a line of the room or from the center of the fill outwards in all directions to keep pouring against the freshest material possible.

Lightly work the transition points between pours and material over or under desired depth with a screed set to the desired depth or lightweight float or straight-edge. Any imperfection can be smoothed by surface troweling or drawing a straightedge over the surface. Direct sunlight, heat and wind can cause rapid drying of the product which may reduce working time.

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To avoid rapid drying, provide protection against these elements.

Please read material safety data before using product.

Disclaimer: All statements and recommendations are based on experience we believe to be reliable. The use or the application of these products being beyond the control of the Seller or Manufacturer, neither Seller nor Manufacturer make any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability of a product for an intended use shall be solely up to the User.