



# LA-O-TEX® SPECIAL 3-1 UNDERLAYMENT SYSTEM

Trowelable, Portland Cement Based,  
Floor Leveler for Applications 1/8" - 1 1/2"

## Product Information

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No. 5 Unit = 5 gallon liquid & five-50 lbs. powder

**La-O-Tex® Special 3-1 Underlayment System** is a self curing, Portland cement based, specialized aggregate and liquid latex floor leveling system designed for applications from 1/8" thickness to 1 1/2" thickness. It is water, acid and alkali resistant and produces a permanent, vibration resistant bond with high compressive strength. Produced under rigid quality control, **La-O-Tex Special 3-1 Underlayment** is formulated with the high-

est quality latex and cement.

### BASIC USE

**La-O-Tex Special 3-1 Underlayment** is used for the deep leveling of concrete or other Portland cement-based substrates prior to the installation of resilient floor coverings, wood flooring, ceramic and stone tile. When properly mixed, the underlayment will not shrink when setting. It resists breakdown due to dampness and cures to a semi-resilient but very tough surface that will not check, crack or break-up. As with all cement-based products, strength increases significantly during the initial 28 days.

### AREA OF USE

**La-O-Tex Special 3-1 Underlayment** is used on interior or exterior applications from 1/8" thickness to 1 1/2" thickness. For pours over 1 1/2" thick, a two-pour procedure must be followed. **La-O-Tex Special 3-1 Underlayment** may be used as a wearing surface in areas which do not require high chemical resistance.

### LIMITATIONS

**La-O-Tex Special 3-1 Underlayment** must not be used over gypsum-based surfaces, paints, particleboard, lauan plywood, plastics, old adhesive residue, vinyl products, waterproofing or crack suppression membranes, epoxy or urethane coverings. Use in temperature range of 40°F to 90°F (Do Not allow mortar to freeze for the first 72 hours).

### APPLICABLE STANDARDS

There are no industry standards established for this product.

### PACKAGING

COLOR: Gray.  
TEXTURE: Free-flowing white liquid component and a sanded gray powder consisting of cement organic and inorganic chemicals.  
PACKAGING: No. 1 Unit = one gallon liquid & 50 lbs. powder  
No. 5 Unit = 5 gallon liquid & five-50 lbs. powder  
No. 55 Unit = 55 gallon drum liquid and fifty-five -50 lbs. powder  
PALLET SIZES: Liquid; 5 gallon pails (36 pails per pallet)  
Powder: 50 lbs. Bag (56 per pallet)

### INSTALLATION

#### Preparatory Work

All surfaces to receive **La-O-Tex Special 3-1 Underlayment** must be free of structural movement, clean and free from dust, efflorescence, loose particles, sealers, curing compounds, oils, surface hardeners, paint, waterproofing or crack isolation compounds, chemically treated surfaces, cut back adhesive, old adhesives, foreign matter and other anti-adherents. Cleaning may be accomplished via mechanical sanding, scraping, chipping or shot blasting. Remember, the **La-O-Tex Special 3-1 Underlayment** system is only as good as the substrate it is applied to.

#### Cementitious Substrates

Concrete floors must be sufficiently cured and free of excessive moisture. Concrete sub-floors must first be primed or brush-coated with undiluted **La-O-Tex 3-1 Underlayment Liquid**. Allow primed coat to become "tacky", then proceed with topping coat. Do not allow the primer coat to complete dry prior to application of mixed underlayment.

#### Wood Surfaces

Installations over plywood are restricted to interior dry areas only. Painted or galvanized metal lathe must be nailed to plywood floors prior to installing **La-O-Tex Special 3-1 Underlayment**. For patching or leveling wood surfaces, you may also use other TexRite products such as **Port-A-Patch**, **FeatherRite** or **FlowRite** following the instructions on the applicable data sheet.

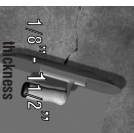
#### Expansion Joints

Expansion joints, contraction joints, construction joints or structural cracks shall never be bridged over with **La-O-Tex Special 3-1 Underlayment**. They should continue through the underlayment and the subsequent flooring material. Install expansion joints through the **La-O-Tex Special 3-1 Underlayment** where it 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 drawings. Follow procedures EJ171 in the TCNA Handbook.

#### Mixing

Place **La-O-Tex 3-1 UNDERLAYMENT LIQUID** in clean container. Add one 50-lb. bag of powder to one gallon of liquid latex and mix with slow (300 RPM) mixer until a smooth trowelable mix is obtained. Always use the least amount of mixing liquid necessary

NO-MOLD  
GROWTH  
FORMULA



SPECIAL 3-1  
UNDERLAYMENT

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to retain high strength. Allow mix to slake approximately 5 to 10 minutes before use. Apply mixed underlayment with a steel trowel within 30 minutes after mixing. DO NOT sprinkle with water after application.

### Application

All surfaces to receive **La-0-Tex Special 3-1 Underlayment** must first be primed or brush-coated with **La-0-Tex 3-1 UNDERLAYMENT LIQUID**. Allow prime coat to become "tacky" then proceed with topping coat. Do not allow the primer coat to complete dry prior to application of mixed underlayment. Do not apply at temperatures below 40° F, above 90° F or in areas exposed to direct sunlight. Pour the mix on the patching area. (Underlayment should be keyed or troweled to substrate to be sure of obtaining a proper bond). Then apply mix to the desired thickness. Area may be steel troweled to a smooth finish and upon reaching a hard set may be sanded to desired level and texture.

Multiple layers of underlayment shall require priming between pours and a minimum cure time of 24 hours is recommended before applying additional pours. Do not exceed three layers of application.

### Coverage

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

### Cleaning

Water is all that is needed to remove uncured mortar.

### Curing

A minimum cure is obtained in 24 hours, depending on ambient temperature.

## SPECIFICATIONS

### Technical Data: La-0-Tex Special 3-1 Underlayment

Test	Typical Values
Working Time	30 minutes @ 70°F
Initial Set	2 hours @ 70°F
Final Set	8 hours @ 70°F
Compressive Strength (ASTM C109)	
	7 days 3900 psi
	28 days 4500 psi
Flexural Strength (ASTM C348)	28 days 1130 psi
Tensile Strength (ASTM C190)	28 days 630 psi
Bond Strength (ASTM D3931)	28 days 650 psi
Consistency	Paste
Suitable as Wearing Surface	Yes
Recommended for Intermittent Moisture	Yes

**SAFETY- CAUTION: Powder** - 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 respirators or mask for Silica dust. Contains Portland cement. If any cement or cement mixture gets into eyes, flush immediately and repeatedly with water and consult 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. Liquid- Avoid inhalation of vapors, use in well ventilated areas. Avoid contact with eyes or skin. In case of contact with eyes, flush with water and call physician immediately; for skin contact, wash with warm soapy water. If material is swallowed, call physician immediately.

### KEEP OUT OF THE REACH OF CHILDREN.

Storage Life-Liquid-One year; Powder-One year if kept in dry sealed bags. Protect from freezing.

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