



TECHNICAL DATA SHEET – POLYSPEC® LITE LATEX

Revised: 3/2018

DESCRIPTION

PolySpec® LITE LATEX is a latex modified cement compound mixed with dry components to produce a versatile underlayment that bonds well to clean substrates without the aid of mechanical fasteners. It provides a strong, level, and seamless surface for finished deck coverings to adhere to. LITE LATEX has been approved as meeting parts 2 and 6 of Annex 1 of the IMO Fire Testing Procedures Code. PolySpec® LITE LATEX is listed on the Federal Government's Qualified Products List under MIL-D-3135 Type II, Class I. Coast Guard Approval Number 164.106/30/0

TYPICAL APPLICATION

PRIMER	LITE LATEX Slurry Coat
BODY COAT	18.002 Emulsion and LITE LATEX Powder @ ¼" thickness

PERFORMANCE DATA

WEIGHT@ 1/4"	1.8 lb/ft²
COMPRESSIVE STRENGTH (ASTM C-306)	1,800 psi
FLEXURAL STRENGTH (ASTM C-580)	1,200 psi
MOISTURE ABSORPTION (MIL-D-3135)	2.15%
IMPACT RESISTANCE (MIL-D-3135)	0.031" - No chipping
INDENTATION (MIL-D-3135)	Initial: 24 hrs cure - <20% max Residual: 96 hrs cure - 5% max
CORROSION RESISTANCE (MIL-D-3135)	No signs of corrosion
OIL ABSORPTION (MIL-D-3135)	1.7%
ADHESIVE STRENGTH (MIL-D-3135)	195 psi
FIRE RESISTANCE (IMO RES.A.687(17))	Not readily ignitable
RESISTANCE TO ELEVATED TEMPERATURES (MIL-D-3135)	No flow, no slip, no softening
SHOCK RESISTANCE (MIL-D-3135)	No signs of chipping, cracking or detachment from the steel plate

BENEFITS

- Zero VOC's, very low odor
- Lightweight
- Fast-setting
- Can be feather-edged
- Produces a smooth finish
- Compatible with most adhesives

RECOMMENDED USES

- Leveling and fairing uneven floors and welds
- Ramp between floors of different elevations, creating a pitch to drain
- Underlayment for resilient flooring, vinyl, ceramic tile, carpet, and other flooring materials

GENERIC DESCRIPTION:

Latex Modified Cementitious Underlayment

PACKAGING / COVERAGE

Primer

18.002 Emulsion 5-Gallon Unit / 1000 sq. ft.  
Lite Latex powder 50-Pound bag / 300 sq. ft.

Body Coat @ ¼" thickness:

18.002 Emulsion 5-Gallon Unit / 150 sq. ft.  
Lite Latex powder 50-Pound bag / 19 sq. ft.

POLYSPEC® LITE LATEX

LIGHT WEIGHT POLYMER MODIFIED UNDERLAYMENT

STORAGE & INSTALLATION

STORAGE ENVIRONMENT	Dry area, 65-80°F
APPLICATION TEMPERATURE, AMBIENT	50-85°F
APPLICATION TEMPERATURE, SUBSTRATE	Minimum 5°F above dew point
SERVICE TEMPERATURE	Maximum 150°F
SHELF LIFE	12 months
POT LIFE, @ 77°F	30 minutes
FOOT TRAFFIC, @ 77°F	12-16 hours
FULL SERVICE, @ 77°F	18-24 hours

Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

CONSIDERATIONS & LIMITATIONS

1. Prepare substrate according to "Surface Preparation" portion of this document.
2. This product should be used in dry spaces only, unless otherwise instructed by a ITW Polymers Sealants North America, Inc. representative.
3. Always use protective clothing, gloves and goggles during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Safety Data Sheet for detailed safety precautions.
4. For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION

**STEEL:** Steel: For steel surfaces, a "Near White Metal" ultra high-pressure wash or abrasive blast with anchor profile of 2-4 mils in accordance with Steel Structures Painting Council Specification SP-10 or NACE No. 2 is required. This product can be applied to the following substrate(s) that have been prepared according to PolySpec Surface Preparation Guidelines: Existing deck covering shall be totally removed. It is imperative that, before installation begins, all surfaces to which PolySpec decking product(s) will be applied - including deck, bulkheads, pipes, protrusions, etc. - are cleaned of all foreign matter such as dirt, dust, plaster, cement, paint, oil, grease, wax, rust, scale, moisture, concrete curing compounds or release agents, and other contamination.

- Metal surfaces must be cleaned until bright metal is exposed.
- Surface preparation should include vertical surfaces three inches up from the deck.
- Surface preparation shall be by the methods most feasible, such as grinding, abrasive vacuum blasting, sanding, or using a needle gun or other appropriate hand tool(s) to clean the deck.
- Remove all dust and other loose material so that adhesion is assured.

If existing substrate or deck covering cannot be removed, material must be cleaned and inspected for soundness prior to installing PolySpec product. If PolySpec product is to be installed over an existing system, it is imperative that the coating be thoroughly sanded, cleaned and wiped with isopropyl alcohol before installation of the PolySpec decking product(s). Urethane topcoats must be completely removed to ensure adhesion of the system.

Refer to PolySpec Guidelines for Subfloor Preparation for additional details.

INSTALLATION STEPS

1. **PRIMER APPLICATION:** Pre-mix approximately 1 part 18.002 Emulsion with 3 parts LITE LATEX powder. Apply as a slurry to the deck with a heavy bristle brush. This process should wet the floor with the emulsion powder slurry completely. Body coat should be troweled into the wet primer coat. If primer coat dries prior to body coat placement, re-apply primer slurry. This process is the key to good surface adhesion and is integral to a successful application
2. **BODY COAT APPLICATION:** Mix thoroughly 1 gallon of 18.002 Latex Liquid with approximately 1 ½ (80 lbs) bags of LITE LATEX Powder. Vary mix according to needs. Thin coats use a wetter mix. Thick coats use a drier mix. Pour 1 gallon of the 18.002 Latex Liquid into a clean 10-gallon container. Gradually add approximately 1 ½ (80 lbs) bags of LITE LATEX Powder to the liquid. Use a 3/4-inch drill and mixing paddle.

**NOTE:** PolySpec LITE LATEX is fast setting. Working time of the mixed material is approximately 30 minutes. Mix no more than can be conveniently applied within that time frame.

A hoe and mortar box can also be used. If using this method, pour the liquid into one end of the mortar box and the powder into the other end. Gradually cut the powder into the liquid using the hoe. With either method, be sure to get a homogenous mix making sure that no dry particles remain. While the surface wetting coat is still wet, trowel on the underlayment body coat with a steel trowel. Do not over-trowel, but use a smooth, sweeping motion. Curing time is approximately 12 hours, although curing time will vary with temperature and humidity. Be sure that material is completely dry before application of finish deck covering.

3. **SANDING:** When PolySpec LITE LATEX serves as the underlayment for resilient tile, it is generally desirable to lightly sand the surface to remove trowel marks. This can be done after the underlayment has cured approximately 12 hours.
4. **CURING:** PolySpec LITE LATEX may be covered with a resilient flooring system, or other desired finish flooring system, immediately after sanding and after it has been vacuumed to pick up dust. If it is to be covered without sanding, an overnight curing period is required. If the finished deck coating is a trowel applied material, the LITE LATEX system should be allowed to cure for one or two days (depending on drying conditions) to make certain that it is thoroughly dry.

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