



# STRANLOK® ML SERIES 273

## PRODUCT PROFILE

**GENERIC DESCRIPTION** Polyamine Epoxy

**COMMON USAGE** A fiberglass mat reinforced coatings system for walls and ceilings providing cleanability and protection against chemical and physical abuse. Provides a high-performance, smooth, seamless surface with excellent chemical, stain, impact and abrasion resistance.

**COLORS** 15BR Pale. **Note:** Epoxies chalk and yellow with age, extended exposure to UV and artificial lighting. Caution should be taken when selecting white and light pastel colors. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause amine blush, possibly affecting adhesion of subsequent topcoats.

## COATING SYSTEM

**SURFACER/FILLER/PATCHER** **CMU, Concrete & Cement Board:** Series 215 or 218, Series 201 or 273 mixed with fumed silica (refer to Technical Bulletin 98-11). **Note:** Series 215 can also be used as a bedding coat for Series 273 Stranlok ML system. Refer to the applicable product data sheet for additional information.

**PRIMERS** **Wall Board, Wood & Drywall:** Self-priming or Series 27WB, 151, 201, 233  
**Note** For taping joints on drywall, use a high quality taping compound such as Sheetrock brand Durabond 90.

**TOPCOATS** Series 22, 27WB, 73, 113, 114, 280, 280FC, 282, 287, 290, 297, 1074, 1075, 1080, 1081. **Note:** Series 273 saturant coat must be topcoated with 22, 27WB, 280, 280FC or 282 prior to application of other finish coats. Refer to the applicable product data sheet for color availability and additional information.

## SURFACE PREPARATION

Prepare surfaces by method suitable for exposure and service. (See the primer/surfacer/filler product data sheets for specific recommendations.)

**VERTICAL CONCRETE** When self-priming: Allow new concrete to cure 28 days. Abrasive blast or mechanically abrade concrete to remove laitance, form release agents, curing compounds, hardeners, sealers and other contaminants and to provide surface profile. (Reference SSPC-SP13)

**CMU** When self-priming: Allow new mortar to cure 28 days. Surfaces must be clean, dry, sound and free of all contaminants. Level all protrusions and mortar spatter. For pinhole free surface, use recommended surfacer/filler/patcher.

**WALL BOARD, WOOD & DRYWALL** Must be clean, dry and free of oil, grease and other contaminants. **Note:** When using moisture resistant and/or high impact wall board or cement board in wet environments, utilize Series 215 and fiberglass tape or compound suitable for wet environments.

**ALL SURFACES** Must be clean, dry and free of oil, grease and other contaminants.

## TECHNICAL DATA

**VOLUME SOLIDS** 100% (mixed)

**RECOMMENDED DFT** 20 to 25 mils (508 to 635 microns) including fiberglass reinforcing mat.

**CURING TIME**

Temperature	To Topcoat	To Place in Service
75°F (24°C)	8-24 hours	24 hours

If more than 24 hours have elapsed between coats, the coated surface must be mechanically abraded before topcoating.

**VOLATILE ORGANIC COMPOUNDS**  
**Unthinned:** 0.16 lbs/gallon (19 grams/litre)  
**Thinned 5% (No. 2 Thinner):** 0.52 lbs/gallon (63 grams/litre)  
**Thinned 5% (No. 42 Thinner):** 0.50 lbs/gallon (60 grams/litre)

**THEORETICAL COVERAGE** 1,604 mil sq ft/gal (39.4 m<sup>2</sup>/L at 25 microns). See APPLICATION for coverage rates.

**NUMBER OF COMPONENTS** Three: Liquids Part A (epoxy) and Part B (amine)  
Fiberglass Reinforcing Mat Part C (S273-0273C)

**MIXING RATIO** By volume: Two (Part A) to One (Part B)

**PACKAGING** KITS CONSIST OF:

	PART A	PART B	When Mixed
Large Kit	2-5 gallon pails	1-5 gallon pail	15 gallons (56.8 L)
Small Kit	2-1 gallon cans	1-1 gallon pail	3 gallons (11.4 L)

The fiberglass reinforcing mat (S273-0273C) is calculated per sq ft based on a 36 in x 180 ft (540 sq ft) roll and is available in full rolls only.

**NET WEIGHT PER GALLON** 11.84 ± 0.25 lbs (5.57 ± .11 kg) (mixed)

**STORAGE TEMPERATURE** Minimum 40°F (4°C) Maximum 90°F (32°C)  
**Note:** Material should be stored at temperatures between 70°F and 90°F (21°C and 32°C) for at least 48 hours prior to use.

**TEMPERATURE RESISTANCE** (Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

**SHELF LIFE** 12 months at recommended storage temperature.

**FLASH POINT - SETA** N/A

**HEALTH & SAFETY** This product contains chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.  
**Keep out of the reach of children.**

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## APPLICATION

### COVERAGE RATES

Before commencing, obtain and thoroughly read the Fiber Reinforced Systems Installation and Application Guide.

The mixed liquids (Part A and B) are spread by roller application at a rate of 135 sq ft (12.5 m<sup>2</sup>) to 200 sq ft (18.6 m<sup>2</sup>) per gallon or approximately 8 mils (205 microns) to 12 mils (305 microns) wet. Immediately upon application of the Series 273 mixed liquids, embed the Part C fiberglass reinforcing mat into the liquids. Apply additional Series 273 liquids at a rate of approximately 200 sq ft (18.6 m<sup>2</sup>) to 270 sq ft (25.1 m<sup>2</sup>) per gallon or approximately 6 mils (150 microns) to 8 mils (205 microns) wet to completely cover and wet-out the fiberglass reinforcing mat.

	Dry Mil (Microns)	Wet Mil (Microns)	Sq Ft/Gal (m <sup>2</sup> /Gal)
Base Coat	8.0-12.0 (205-305)	8.0-12.0 (205-305)	135-200 (12.5-18.6)
Saturant Coat	6.0-8.0 (150-205)	6.0-8.0 (150-205)	200-270 (18.6-25.1)

Allow for surface irregularities and waste. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance.

### MIXING

Use a variable speed drill with a PS Jiffy blade. Slowly mix 2 parts A component, and while under agitation add 1 part B component and mix for a minimum of two minutes. Ensure that all Part B is blended with Part A by scraping the pail walls with a flexible spatula. Apply the mixed material within pot life limits after agitation. **Note:** A large volume of material will set up quickly if not applied or reduced in volume.

**Caution: Do not reseal mixed material. An explosion hazard may be created.**

### THINNING

Normally not required. May thin up to 5% or 6.4 ounces (190 mL) per gallon to improve application properties. Brush and roll application use No. 2 Thinner. Spray application use No. 42 Thinner.

### POT LIFE

25 to 30 minutes at 70°F (21°C)    15 to 20 minutes at 80°F (27°C)    8 to 10 minutes at 90°F (32°C)  
Increasing material temperatures will significantly reduce the pot life.

### APPLICATION EQUIPMENT

Roller or brush. Use high quality synthetic woven nap roller covers. Brush should be limited to small or hard to reach areas only.

### SURFACE TEMPERATURE

Minimum of 55°F (13°C), optimum 65°F to 80°F (18°C to 27°C), maximum of 90°F (32°C). The substrate temperature should be at least 5°F (3°C) above the dew point.

### MATERIAL TEMPERATURE

For optimum application, handling and performance, the material temperature during application should be between 70°F and 90°F (21°C and 32°C). Temperature will affect the workability. Cool temperatures increase viscosity and decrease workability. Warm temperatures will decrease viscosity and shorten pot life.

### CLEANUP

Flush and clean all equipment immediately after use with MEK, xylene or No. 74 Thinner.

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