



REMR MATERIAL DATA SHEET CM-SE-1.27
 CONCRETE SEALER: LCS-8327 AND LCS-8175

1. NAME

LCS-8327 and LCS-8175.

2. MANUFACTURER

Lauren Manufacturing Co.
 2228 Reiser Ave., S.E.
 New Philadelphia, OH 44663
 Telephone: 216-339-3373

3. DESCRIPTION

Chemical-resistant fluoroelastomer
 concrete sealer.

4. USES & LIMITATIONS

Uses: To protect highways, bridges, pipelines, parking decks, and other concrete structures against moisture, chemicals, and temperature extremes. LCS-8175 Surface Sealant is designed to protect structures from more severe chemical attack. This product is not recommended for highly abrasive or high-traffic areas. LCS-8327 Penetrating Sealant is recommended for most applications. This product meets specifications for most penetrating sealants and water repellents. LCS-8327 does not change the appearance of the substrate. Penetration up to 7 mm can be expected.

Limitations: Keep away from flame or sparks at all times. Apply only under conditions of thorough ventilation. Use of air-purifying respirators is recommended.

5. MANUFACTURER'S TECHNICAL DATA

Fluid resistance: Excellent in all cases
 Tensile strength: 375-2,950 psi
 Elongation: 100-1,000 percent
 Adhesion: >700 psi in service
 Performance temperature: -40° F to +400° F continuous
 >400° F intermittent
 Tabor abrasion: Excellent (0.25 g/1,000 cycles, H-22 wheel).

LCS-8175 Surface Sealant 2-Part System:

Coverage: 100-150 sq ft/gal
 Specific gravity: 0.84
 Weight per gallon: 7.0 lb/gal
 Percent solids by weight: 7.5 percent
 Viscosity: Less than 10 centipoises
 Shelf life: Indefinite
 Pot life: 6-10 hr depending on temperature
 Solvent type: Ketones
 Water absorption: 0.8 percent by weight at 115-sq-ft coverage

LCS-8327 Penetrating Sealant 1-Part System:

Penetration: Up to 7 mm
 Coverage: 100-150 sq ft/gal
 Specific gravity: 0.82
 Weight per gallon: 6.8 lb/gal
 Percent solids by weight: 27.25 percent
 Viscosity: Less than 10 centipoises

Shelf life: Up to 1 year
 Pot life: Up to 1 year
 Solvent type: Alcohols
 Water absorption: 0.3% by weight at
 115-sq-ft coverage

systems that cure at room temperature. Physical properties and working time for application are controlled by varying the amount of catalyst.

The catalyst should be added to the fluoroelastomer coating and stirred for 10 min. Ten minutes more should be allowed for the digestive period. The pot life is up to 8 hr, under normal conditions.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation: Priming is not usually necessary when surfaces are thoroughly cleaned. A coat should be tested to ensure good adhesion. Surfaces should be prepared according to these guidelines:

Application methods:

Before sandblasting, all traces of oil and grease should be removed using a suitable detergent, followed by a clean-water washing.

For large areas and inside pits and tanks, the sealant should be sprayed using commercial airless spray equipment.

An anchor pattern, 10 to 15 percent of the total coating thickness, should be obtained.

Brushing should be used for large areas such as walls and floors, using a 4- to 6-in. brush. For small items that may be immersed in the coating, dipping should be used. Items should then be hung and allowed to dry.

Dust and sand particulate should be removed by suitable means.

Multiple-coat application: Additional coats can be applied until desired thickness is reached.

Preparation of coating: Lauren fluoroelastomer coatings are two-part

7. CORPS OF ENGINEERS' EVALUATION

Physical and mechanical properties:

Percent solid (ASTM D 1644, Method A):

	<u>LCS-8175</u>	<u>LCS-8327</u>
	12.0%	19.9%

Percent water absorption (ambient temperature) (ASTM C 642):

	<u>LCS-8175</u>	<u>LCS-8327</u>	<u>1st Coat 8327</u>	<u>2nd Coat 8175</u>
1 day	0.43%	0.22%		0.10%
2 days	0.72%	0.32%		0.12%
4 days	1.28%	0.44%		0.19%
7 days	1.68%	0.53%		0.28%

Ratio of percent water absorption for treated to nontreated specimen
(2-day submersion):

	<u>LCS-8175</u>	<u>LCS-8327</u>	<u>1st Coat 8327</u> <u>2nd Coat 8175</u>
	15.3%	6.8%	2.6%

Percent water transmission:

	<u>LCS-8175</u>	<u>LCS-8327</u>	<u>1st Coat 8327</u> <u>2nd Coat 8175</u>
2 days	0.99%	0.40%	0.25%
4 days	1.76%	0.67%	0.44%
7 days	2.57%	1.08%	0.75%

Ratio of percent water transmission for treated to nontreated specimen
(7-day diffusion):

	<u>LCS-8175</u>	<u>LCS-8327</u>	<u>1st Coat 8327</u> <u>2nd Coat 8175</u>
	72.8%	30.6%	21.2%

8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, repair, and cleanup phases of sealant activities involving potentially hazardous and toxic chemical substances. Manufacturer's recommendations to protect occupational health and environmental quality should be carefully followed. Material safety data sheets should be obtained from the manufacturers of such materials. In cases where the effects of a chemical substance on occupational health or environmental quality are unknown, chemical substances should be treated as potentially hazardous toxic materials.

Cost: Costs of products are:

\$40/gal for small volumes
\$36.36/gal for 1 to 3 drums
\$33.75/gal for 4 to 10 drums

10. TECHNICAL SERVICE

Call 800-882-6907 for technical service and latest price information.

9. AVAILABILITY & COST

Availability: Products are available from the plant in New Philadelphia, OH.