



REMR MATERIAL DATA SHEET CM-SE-1.26
CONCRETE SEALER: MARK 124
 (Supersedes previously issued CM-SE-1.26)

1. NAME

Mark 124

cycles of freezing and thawing, salt-water penetration, and heavy traffic.

Limitations:

2. MANUFACTURER

Poly-Carb
 33095 Bainbridge Road
 Cleveland, OH 44139
 Telephone: (216) 248-1223

Regular formulations should not be applied at temperatures below 45° F or if rain is expected within 6 hr.

Low-temperature formulations should not be applied at temperatures below 20° F.

3. DESCRIPTION

Two-component epoxy penetrating sealer.

Mark 124 should be kept away from open flame.

The sealer contains xylene; therefore, proper ventilation is required during the application.

4. USES & LIMITATIONS

Uses: Mark 124 provides long-term protection for surfaces against

5. MANUFACTURER'S TECHNICAL DATA

Properties of Part A and Part B:

	<u>Part A</u>	<u>Part B</u>
Mixing ratio	1 volume	1 volume
Shelf life	2 years	2 years

Properties of mixed Mark-124

	<u>Regular Temperature</u>	<u>Low Temperature</u>
Color	Clear	Clear
Percent solid	Over 50%	Over 50%
Pot life at (75° ± 2° F) 25° C	Over 4 hr	Over 1-1/2 hr (100 g)
at (65° ± 2° F) 18° C	Over 5 hr	Over 1-1/2 hr
at (55° ± 2° F) 13° C	Over 6 hr	Over 2 hr

	<u>Regular Temperature</u>	<u>Low Temperature</u>
at (45° ± 2° F) 7° C	--	Over 2-1/2 hr
at (35° ± 2° F) 2° C	--	Over 3 hr
at (35° ± 2° F) -4° C	--	Over 3-1/2 hr
Initial set at (75° ± 2° F) 25° C	2 hr	30 min
at (65° ± 2° F) 18° C	3 hr	30-40 min
at (55° ± 2° F) 13° C	6-8 hr	40-60 min
at (45° ± 2° F) 7° C	Over 12 hr	1-2 hr
at (35° ± 2° F) 2° C	Not recommended	2-4 hr
at (25° ± 2° F) -4° C	Not recommended	4-6 hr
Final set at (75° ± 2° F) 25° C	3-4 hr	1-1-1/2 hr
at (65° ± 2° F) 18° C	4-6 hr	1-1/2-2 hr
at (55° ± 2° F) 13° C	8-12 hr	2-2-1/2 hr
at (45° ± 2° F) 7° C	16-18 hr	3-4 hr
at (35° ± 2° F) 2° C	Not recommended	5-6 hr
at (25° ± 2° F) -4° C	Not recommended	8-12 hr
Full cure at (75° ± 2° F) 25° C	36 hr	24 hr
at (65° ± 2° F) 18° C	48 hr	24 hr
at (55° ± 2° F) 13° C	72 hr	30 hr
at (45° ± 2° F) 7° C	7 days	36 hr
at (35° ± 2° F) 2° C	--	48 hr
at (25° ± 2° F) -4° C	--	72 hr

Packaging:

55-gal drums	110-gal units
5-gal pails	10-gal units
1-gal cans	4-gal units

In the case of rain, 2 days of good drying weather is recommended before sealing the concrete.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation: The concrete surface to be sealed must be free of dust, oil, grease, waxes, and previous sealer or coatings and must be dry. All the spalled concrete area must be repaired before application of the sealer. Mechanical abrasion methods, such as sandblasting or scarification, should be used. In case of very old, greasy concrete surfaces, sandblasting alone might not be sufficient, making additional scarification necessary. The cleaned surface should be washed with water under high pressure. Excess water should be removed and the surface should be dried thoroughly.

Mixing: Equal volumes of Part A and Part B are mixed in a clean, dry metal container. The mix should be allowed to stand for an induction time of 20 to 30 min before use for regular-temperature formulations and 10 min for low-temperature formulations.

Application: Mark 124 can be sprayed, rolled, or brushed, but a light scrubbing action with a lamb's wool applicator can provide a deeper penetration.

Coverage:

150 to 250 sq ft/gal, depending on the surface.

7. CORPS OF ENGINEERS' EVALUATION

Physical and mechanical properties:

Percent solid
(ASTM D 1644, Method A): 48.5%

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

1 day	0.04%
2 days	0.07%
4 days	0.11%
7 days	0.12%

Ratio of percent water absorption
for treated to nontreated specimen
(2-day submersion): 1.5%

Percent water transmission:

2 days	0.04%
4 days	0.08%
7 days	0.12%

Ratio of percent water transmission
for treated to nontreated specimen
(7-day diffusion): 3.4%

8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, repair, and cleanup phases of sealant activities involving potentially hazardous and toxic chemical substances. This sealer contains xylene; therefore, proper ventilation is required during application, and no flame should be allowed in the area at the time of application. 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.

9. AVAILABILITY & COST

Availability: The product is available throughout the United States by selected distributors.

Cost: The cost depends upon the volume ordered and ranges from \$10 to \$12 per gallon for large orders (about 1,000 gal) to \$16 to \$18 per gallon for small orders.

10. TECHNICAL SERVICES

Poly-Carb's products are sold and serviced throughout the United States by selected distributors who are required to maintain a well-qualified professional staff. In addition, Poly-Carb's specialized technical service and mobile lab are available to these distributors to solve specific field problems.