



REMR MATERIAL DATA SHEET CM-SE-1.16

CONCRETE SEALER: BRIDGE 10

(Supersedes previously issued CM-SE-1.16)

1. NAME

Bridge 10

2. MANUFACTURER

Dolphin Industries, Ltd.
3930 University Dr.
Fairfax, VA 22030
Telephone: (703) 385-3232

3. DESCRIPTION

Sodium silicate.

4. USES & LIMITATIONS

Uses: To seal all concrete surfaces, particularly for bridge decks, barriers, highway surfaces, curbs, and gutters.

Limitations: Minimum allowable air temperature and concrete surface temperature shall be 40° F and rising. Sealer shall not be applied sooner than 24 hr after rainfall, nor when rain is forecast to occur within 24 hr after the proposed time of application.

5. MANUFACTURER'S TECHNICAL DATA

Product	Percent of Chloride Passes, Compared with Linseed Oil and Control		Cost Per sq yd
	1/16 in. to 1/2 in.	1/2 to 1 in.	
Linseed Oil	100	100	\$0.18
Bridge 10	45	20	\$0.18

Dolphin Concrete Sealer meets or exceeds the following Federal Specifications: ASTM C 672, ASTM C 642, AASHTO T-259, AASHTO T-260, and AASHTO STD T-277.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Bridge 10 should be applied full strength to concrete specimens in one coat with brush and should be allowed to penetrate totally. A second (liberal coat) should be applied and allowed to penetrate. Then a light coat of water (mist) should be applied and allowed to penetrate, followed by a second light coat of water (mist), which should be allowed to dry. Cure for 10 days in a warm humid atmosphere.

7. CORPS OF ENGINEER'S EVALUATION

Physical and mechanical properties:

Percent solid (ASTM D 1644, Method A): 15.6%

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

1 day	4.3%
2 days	4.4%
4 days	4.4%
7 days	4.5%

Ratio of percent water absorption for treated to nontreated specimen (2-day submersion): 94.0%

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.

9. AVAILABILITY & COST

Information concerning the availability and cost of Bridge 10 can be obtained by writing the manufacturer at the address given in item 2 or calling (703) 385-3232.

10. TECHNIAL SERVICE

Information on technical service can be obtained by writing the manufacturer at the address given in item 2 or calling (703) 385-3232.