



Deck surface was shot blasted and thoroughly cleaned. Deck-Sil PS 1700 clear penetrating sealer was then applied to the deck surface. Drying time 30 minutes+/-



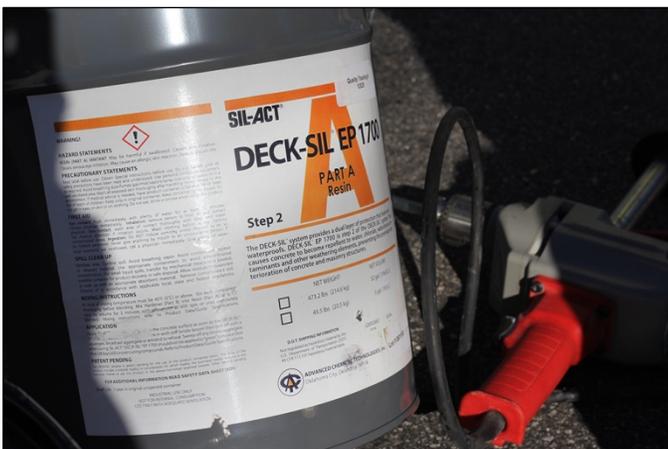
Each component (A&B) is poured into separate five gallon pails. Pails are graduated to ensure accurate measurement for each part



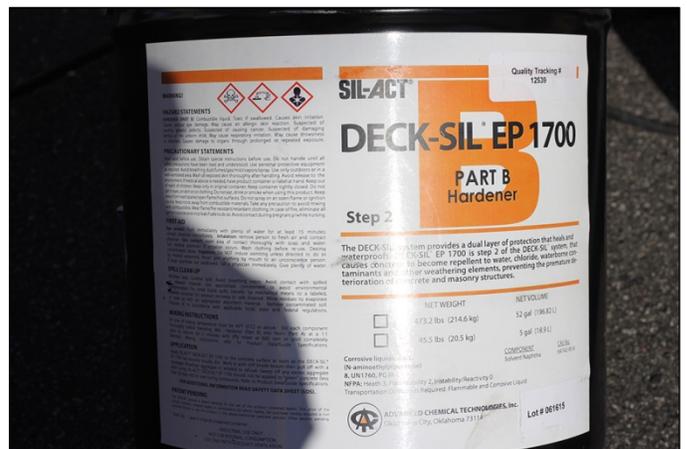
Deck-Sil EP 1700 two-component, low viscosity, epoxy polymer parts A & B ready to be blended.



Both parts are poured into a clean trash bin for mixing. The mixing ratio is 1:1.



Deck-Sil EP 1700 Part A, is the resin portion of the polymer.



Deck-Sil EP 1700 Part B, is the hardener component of the polymer system.



Components are thoroughly mixed for three minutes. The ambient air temperature must be 40 °F or greater. Mixed material is clear to amber in appearance.



Blended **Deck-Sil EP 1700** ready for application to the deck. Do not mix more polymer than can be applied during the pot life.



Material is poured on the deck surface. Material can be spread with a squeegee, or broom.



Area is flooded with material and allowed to pond over hairline cracks. Brooms spread the epoxy over the deck surface.



The application rate of **DECK-SIL™ EP 1700** will vary according to the porosity of the concrete substrate.



Application rate will generally be one hundred square feet per gallon.



Application of **DECK-SIL™ EP 1700** should be done within 4 hours after the **DECK-SIL™ PS 1700** application.



Waiting for material to “tack up”. Drying time at 70°F is approximately 20 minutes.



Before **DECK-SIL™ EP 1700** begins to solidify, broadcast aggregate approved by engineer to refusal on treated area to improve skid resistance



Fine aggregate (sand) now completely covers the polymer. Curing time before traffic is allowed is 3 to 5 hours depending upon temperature and humidity.



Photo taken the day after the first application. (photo courtesy of C.A. Adams).



Bridge deck after completion (photo courtesy of C.A. Adams).

From Advanced Chemical Technologies, Inc. website:

The DECK-SIL™ 1700 series combines the proven concrete protection of DECK-SIL™ PS 1700 silane (alkyltrialkoxysilane) with the low viscosity crack and surface sealing benefits of DECK-SIL™ EP 1700. DECK-SIL™ 1700 series shows a significant increase in penetration of DECK-SIL™ PS 1700 silane. This deeper penetration of the silane promotes improved performance of the silane. The combined effect of the DECK-SIL™ 1700 series promotes longer bridge life due to deeper silane penetration and the flood coat filling performance of the DECK-SIL™ EP 1700.

FEATURES AND BENEFITS

- Superior chloride reduction
- Improved freeze-thaw resistance
- Crack healing and water proofing
- Alternative to full overlay system
- Forms deep hydrophobic layer
- Quick Turnaround
- One time surface preparation – saves time and money
- Extra protection with no extended lane closure time
- Dual layer protection – extends life of structure

Pricing as quoted by AH Harris as of this writing:

Deck-Sil PS 1700 – 5 Gallon Unit - \$381.25 Each + Freight (Sealer)

Deck-Sil EP 1700 – 10 Gallon Unit - \$762.50 Each + Freight (Epoxy)

Deck-Sil EP 1700 – 2 Gallon Unit - \$152.50 Each + Freight (Epoxy)

Harris Epoxy Sand – 50 LB Bag - \$7.25 per Bag

Information provided by Advanced Chemical Technologies, Inc.
website: <http://www.advchemtech.com/>

GPS: 44.18982, 69.96504

Prepared by Doug Gayne,
State of Maine Department of Transportation,
Transportation Research Division
207-624-3268

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