

Product Bulletin

STAR MACRO-DECK

Specialty Penetrant and Sealer for Concrete Bridge Decks

GENERAL DESCRIPTION

STAR MACRO-DECK protects concrete bridge decks against salt and damage from chemicals.

STAR MACRO-DECK quickly penetrates concrete surfaces and forms a rubber network in the interstices that stops water, chloride de-icing chemicals, salt, and other damaging elements from entering the concrete surface.

OUTSTANDING FEATURES

- Inhibits chloride de-icing chemicals, salt and damage from chemicals to concrete.
- Maintains flexural and tensile strength of the concrete.
- Very easy to apply.
- Very fluid, water like consistency.
- Water- based, safe to handle and easy to store.
- Non-flammable.

RECOMMENDED USES

On all types of concrete surfaces, Concrete bridge decks, support structures, guard walls.

- Median dividers, curbs.
- Grain elevators.
- Sanitary sewer.
- Masonry walls and floors.
- Airport taxiways and aprons.

PROPERTIES & SPECIFICATIONS

- **Chemical Properties:** Polymer type 100% Acrylic
- **Physical Properties:** Solids, % by weight 19-21
- **Weight/Gallon:** 8.5-8.6 LBS.
- **Viscosity:** 60-70 cP

Resistant to:	Rating
Water / Salt	Excellent
Chloride – De-icing chemicals	Excellent
Petroleum (Hydraulic) oils	Excellent
Kerosene	Excellent
Transmission Fluids	Excellent
Fat, Grease, Lubricating oils	Excellent

Resistance to many hydrocarbons, and other petrochemicals.

Estimated durability for:

- **Abutments** - Over 3 years
- **Decks** - Approx. 3 years

PENETRATION IN CONCRETE:

- Surface with no cracks - 0.50 inch
- Surface with minor cracks - 1.00 inch

APPLICATION NOTES

a. CONCRETE PREPARATION:

Concrete must be clean, free of dust, grease, grime, mold, mildew and debris.

Additionally, the surface must have a profile and a certain degree of porosity for STAR MACRO-DECK to penetrate swiftly and effectively.

- **Smooth surfaces (including trowel finish)** – Etch with muriatic acid (see detailed application specification) ,
- **Oil, Grease, etc.** Remove by degreasing and washing with a detergent.
- **Mold, Mildew-** Remove with a bleach wash or any other suitable method.

b. Dilution rate: STAR MACRO-DECK shall be diluted with clean potable water. The amount of water added will vary according to the porosity, age and profile. Always ***add water into STAR MACRO-DECK, not vise-versa.***

Generally for:

- **Abutments** - No dilution is recommended, use as supplied.
- **Decks** - Mix One (1) volume of water with One (1) volume of STAR MACRO-DECK

c. Application Methods: Spray, roller or brush.

d. Coverage Rates: Will vary according to dilution.

200-300 Square Feet/ gallon.

f. Drying Time: Approx. 30 minutes. Will vary according to ambient conditions.

PACKAGING: 5- gal. plastic pails / 55 gal. Drums / 275 gal. Plastic totes

PRECAUTIONS Keep from freezing / Observe all safety precautions / Consult Material Safety Data Sheet for details

KEEP OUT OF REACH OF CHILDREN

SHIPPING POINT – Hercules Sealcoat Manufacturing, Doraville, GA

Date- August 3, 2002