

★ 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.

PROPERTIES & SPECIFICATIONS

Chemical Properties

Polymer type	100% Acrylic
Resistant to	Rating
Water/salt	Excellent
Chloride de-icing chemicals	Excellent
Petroleum (Hydraulic) oils	Excellent
Kerosene	Excellent
Transmission Fluid	Excellent
Fat, grease, lubricating oils	Excellent
Resistance to many hydrocarbons, and other petrochemicals.	

- 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.

Physical Properties

Solids, % by weight	19-21
Weight/gallon	8.5-8.6
Viscosity, cps.	60-70
Color-	Clear or light tint
Dry film	Transparent

DURABILITY

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. Generally for;

Abutments: Use as supplied, dilution is not recommended.

Decks: New:Mix STAR MACRODECK with an equal volume of water (1:1).

Older Decks: Apply either at full strength or apply pre-diluted in 1:1 ratio with water.

Always **add water into STAR MACRO-DECK**, not vise-versa.

- 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.

g. Weather Limitations:

STAR MACRO-DCEK is a water-based product therefore it must be protected from freezing.

- Ground and air temperature must be 50 °F and rising prior to and after application.
- Drying is retarded by high humidity and low temperatures.
- Do not apply during rainy or foggy weather.
- Apply at the recommended application rates. Thick applications will require more time to dry and fully cure.

PRECAUTIONS

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

PACKAGING

5- gal. plastic pails
55 gal. Drums
275 gal. Plastic totes.

KEEP OUT OF REACH OF CHILDREN

SHIPPING POINT

STAR PLANTS

