

# MACRO-DECK®

## GENERAL DESCRIPTION

STAR MACRO-DECK® protects concrete bridge decks, abutments and other concrete surfaces against salt and damage from chemicals. STAR MACRO-DECK® quickly penetrates concrete surfaces and forms a rubber network in the interstices that form while concrete cures out. STAR MACRO-DECK® stops water, chloride de-icing chemicals, salt, and other damaging elements from entering the concrete surface.

## OUTSTANDING PROPERTIES

- 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.
- Resistant to many hydro-carbons and other petrochemicals.
- Non-flammable.

## RECOMMENDED USES

STAR MACRO-DECK® is recommended 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.

## COVERAGE RATE

200 - 300 Sq. Ft / Gal (4.9 - 7.3 Sq. Meter / Liter)  
Will vary according to dilution.

## DILUTION RATE

The amount of water added to STAR MACRO-DECK® will vary according to the porosity, age and profile of the concrete being treated.

General Dilution Guidelines for:

- Abutments: Dilution is NOT recommended.
- Bridge Decks: Mix with an equal volume of water (1:1)
- Older Bridge Decks: Either apply at full strength or apply pre-diluted in 1:1 ratio with water.
- ALWAYS: add water *into* STAR MACRO-DECK®, *not vise-versa*.

## APPLICATION

**GENERAL PREPARATION:** Concrete must be clean, free of dust, grease, grime, mold, mildew and debris. Concrete must have a profile and a certain degree of porosity for STAR MACRO-DECK® to penetrate effectively.

**ON SMOOTH SURFACES:** Etch with muriatic acid.

**OIL AND GREASE CONTAMINATION:** Remove by de-greasing and washing with detergent.

**MOLD AND MILDEW:** Remove using bleach wash or other suitable method.

## APPLICATION TOOLS

- Low pressure spray, brush or roller.
- Clean up with Water. Do not discard washings in the bodies of water or down sewer drains.
- Keep stored containers sealed tightly.

## IMPORTANT WEATHER LIMITATIONS

- Surface and air temperature should be a min. 50° F (10° C) and rising.
- Do not apply on rainy, foggy, or extremely humid days, or when rain is in the forecast within 24 hours.
- Drying time is retarded by high humidity and/or lower temperatures.

## CURING TIME

Cure time will vary according to temperature and humidity at the time of application. Lower temperatures, high humidity and lack of direct sunlight will prolong the cure time. Higher temperatures, lower humidity and direct sunlight accelerate the cure process. After the application allow the coating to cure at least 30 minutes under good drying conditions. Apply at the recommended application rates. Thick applications will require more time to dry and fully cure.

## MATERIAL PROPERTIES & SPECIFICATIONS

### PHYSICAL PROPERTIES

Polymer Type.....	100% Acrylic
Solids by Weight.....	19-21
Weight per Gallon.....	8.5-8.6 lbs
Viscosity .....	60-70 cps

### ESTIMATED DURABILITY FOR:

### RESULTS

Abutments .....	Over 3 Years
Bridge Decks.....	Approx. 3 Years
Abutments .....	Over 3 Years
Abutments .....	Over 3 Years

### PENETRATION IN CONCRETE:

### RESULTS

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

## CAUTIONS

### **KEEP FROM FREEZING**

### **KEEP OUT OF REACH OF CHILDREN**

STAR MACRO-DECK® is a water-based product therefore it must be protected from freezing. Observe all safety precautions, Consult Material Safety Data Sheets for details.

## PACKAGING & AVAILABILITY

5-Gallon plastic pails, 55-gallon drums & 275-gallon plastic totes, and bulk at all STAR plant locations.

### WARRANTY & DISCLAIMER

The suggestions and related data contained on these pages are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. S.T.A.R., INC. will not be responsible for any indirect or consequential damages. We will either replace or refund the purchase price in the event the products are proved to be defective, at our option.