



MACRO DECK Concrete Protector

Product Bulletin

MACRO DECK is manufactured by STAR Specialty Technology and Research. MACRO DECK and other STAR products are available from McConnell & Associates, Corp.

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

Resistant To

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	Excellent

Physical Properties

Solids, % by weight	19.0 – 21.0
Weight/gallon	8.5 – 8.6
Viscosity, cps.	60.0 – 70.0
Color	Clear or light tint
Dry film	Transparent

Durability

Abutments	Over 3 years
Decks	Approximately 3 years*

*Reapplication is recommended to penetrate and seal cracks that will occur over time as the concrete deck expands, contracts and flexes during its normal life span.

Penetration in Concrete

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

Application Notes

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 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.

Dilution Rate

MACRO DECK should be diluted with clean potable water. The amount of water added will vary according to the porosity, age and profile.

General Dilution Rates

Always Add Water Into MACRO DECK, Not Vise-versa

Abutments	No dilution is recommended. Use as supplied.
New Decks	Mix One (1) volume of water with One (1) volume of MACRO DECK
Older Decks	Apply either at full strength or apply pre-diluted in 1:1 ratio with water

Application Methods

Spray, roller or brush.

Coverage Rates

Will vary according to dilution. 200-300 Sq.ft./gallon. Over-application does not enhance product performance.

Drying Time

Approx. 30 minutes. Will vary according to ambient conditions.

Weather Limitations

MACRO DECK is a water-based product and must be protected from freezing.

Ground and air temperature must be 50° F and rising prior to, and after application.

High humidity and low temperatures will retard drying. 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 Points: STAR plants

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McConnell & Associates

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