

# EUCO TAMMOSHIELD

## WATER BASED POLYURETHANE CONCRETE SEALER

### DESCRIPTION

**EUCO TAMMOSHIELD** is a non-yellowing, two-component water based aliphatic polyurethane sealer that provides a glossy, durable surface to concrete and masonry surfaces. It cures by a true thermoset reaction, providing toughness and chemical resistance to EUCO TAMMOSHIELD that far surpasses that of acrylic or one-component water based urethane sealers.

### PRIMARY APPLICATIONS

- Clear protective topcoat for Eucopoxy and Dural epoxy coatings and vinyl chip flooring systems
- Seal coat for Euclid Chemical architectural coatings

### FEATURES/BENEFITS

- Non-yellowing aliphatic formulation
- No odor
- Excellent abrasion resistance
- Provides a glossy, "wet" look
- Can be used on horizontal or vertical surfaces

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following results were developed under laboratory conditions.

**Viscosity** cp ..... 500 to 800

**Working time** ..... 1 to 2 hours

**Drying time @ 73°F (24°C), 50% RH**

Tack free ..... 4 to 6 hours

Light foot traffic ..... 8 to 10 hours

Complete cure ..... 24 hours

**VOC content** ..... <25 g/L

**Solids** by weight ..... 56%

**Resistance to tire marking** ..... excellent

**Taber abrasion** CS-17 wheel

1000 gram load ..... 78 mg weight loss

**Chemical resistance** Spot Test on EUCO TAMMOSHIELD after 14 day cure (ASTM 1308)

	<u>Result after 4 hours</u>	<u>Result after 24 hours</u>
<b>10% Acetic Acid</b>	no effect	slight softening
<b>10% Sulfuric Acid</b>	no effect	no effect
<b>MEK</b>	soft, blistered	soft, blistered
<b>IPA</b>	soft	soft
<b>14% Ammonium Hydroxide</b>	no effect	stained
<b>10% Bleach</b>	no effect	no effect
<b>Gasoline</b>	no effect	slight softening
<b>50% Sodium Hydroxide</b>	no effect	no effect

**Appearance:** EUCO TAMMOSHIELD is a milky white color when wet; dries crystal clear. Also available in light gray and black.

### PACKAGING

EUCO TAMMOSHIELD is available in a 5 gal (18.9 L) unit and in a case of two 1 gal (3.8 L) units.

### SHELF LIFE

1 year in original, unopened container.

### SPECIFICATIONS/COMPLIANCES

- Complies with all U.S. EPA and local VOC regulations, including OTC, Maricopa County and California (CARB and SCAQMD)



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## COVERAGE

The coverage rate is 300 to 400 ft<sup>2</sup>/gal (7.4 to 9.8 m<sup>2</sup>/L), and is highly dependent on substrate texture and porosity.

## DIRECTIONS FOR USE

**Surface Preparation:** The surface to be sealed with EUCO TAMMOSHIELD must be structurally sound, free of dust, dirt, mortar residue, curing materials, form release compounds and all other contaminants. Application to epoxy coatings should be done after the epoxy is tack free, but no longer than 24 hours after the epoxy is applied.

EUCO TAMMOSHIELD is an impermeable coating, and moisture vapor transmission (MVT) through the concrete surface could result in loss of adhesion from the concrete. The MVT rate must be consistently less than 3 lbs/1000 ft<sup>2</sup>/24 hours (1.4 kg/93 m<sup>2</sup>/24 hours) for proper adhesion and performance of EUCO TAMMOSHIELD.

**Mixing:** Using a power mixer with a jiffy type blade, pre-mix Part A and Part B separately for one minute. Add all of the Part B to the Part A and blend EUCO TAMMOSHIELD with slow agitation for 1 to 2 minutes. EUCO TAMMOSHIELD will slightly thicken after mixing. Allow the mixed EUCO TAMMOSHIELD to stand for 5 to 10 minutes before use. Do not thin or dilute with water or any other solvent.

**Application:** Application of EUCO TAMMOSHIELD over Eucopoxy or Dural epoxy coatings should take place as soon as the epoxy has dried tack-free. Application of EUCO TAMMOSHIELD to epoxy coatings that have been in place for over 24 hours will require mechanical abrasion of the epoxy coat to provide a suitable surface for bonding.

Apply EUCO TAMMOSHIELD in a uniform, continuous film by airless sprayer, short nap mohair roller, foam applicator, lambswool applicator, paint brush, or soft bristled push broom. Redistribute or remove puddles or excess material before it dries. Follow recommended coverage rates carefully to avoid uneven or heavy applications. Application over new coats of Tammscoat should be done after the Tammscoat has cured for 24 hours. Application over existing Tammscoat or should be done after the surface has been thoroughly cleaned and is dry.

## CLEAN-UP

Clean tools and equipment with water immediately following use. Clean drips and overspray with solvent while still wet. If not cleaned immediately, the sealer may leave a residue on painted surfaces, glass or wood.

## PRECAUTIONS/LIMITATIONS

- Do not apply to exterior surfaces if rain is expected within 6 hours after application or in direct sunlight at ambient temperatures in excess of 90°F (32°C).
- Do not apply to exterior slab-on-grade concrete, wet surfaces, or concrete experiencing moisture vapor transmission.
- EUCO TAMMOSHIELD may darken the surface and accentuate surface imperfections. A test application to evaluate appearance and performance is strongly recommended.
- The coefficient of friction of the surface may decline with each sealer application.
- Do not apply to frozen or frost filled surfaces.
- Not recommended for asphalt surfaces.
- Always apply a test area to confirm adhesion and appearance.
- Store EUCO TAMMOSHIELD between 50°F to 80°F (10°C to 27°C). Do not allow EUCO TAMMOSHIELD to freeze.
- In all cases, consult the Material Safety Data Sheet before use.

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