

# TAMMS FORM AND POUR

**FLOWABLE, SHRINKAGE COMPENSATED CONCRETE W/CORROSION INHIBITOR**

## DESCRIPTION

**TAMMS FORM AND POUR** is a flowable, one component, polymer modified cementitious repair mortar containing silica fume and a migratory corrosion inhibitor.

## PRIMARY APPLICATIONS

- On grade, above and below grade on concrete
- Horizontal surfaces and formed vertical and overhead surfaces
- Repair material for parking facilities, industrial plants, walkways, bridges, tunnels, dams and balconies
- Filler for voids and cavities
- Compatible with Galvanic Anodes

## FEATURES/BENEFITS

- 3/4" to 3" (19 mm to 76 mm) depth repairs
- Can be extended with pea gravel for deeper repairs
- Silica fume enhanced
- High bond strength
- Pumpable
- Compatible to coefficient of thermal expansion of concrete
- Easily mixed
- ▲ Can contribute to LEED points

## TECHNICAL INFORMATION

### Material Properties at 75°F (24°C)

#### Compressive Strength, psi (MPa) ASTM C 109\*

1 day.....	3,000 (20.7)
7 days.....	6,500 (44.8)
28 days.....	7,800 (53.8)

#### Flexural Strength, psi (MPa) ASTM C 78

1 day.....	560 (3.9)
7 days.....	780 (5.4)
28 days.....	1140 (7.9)

#### Slant Shear Bond Strength, psi (MPa) ASTM C 882

1 day.....	1,730 (11.9)
7 days.....	2,500 (17.2)
28 days.....	2,650 (18.3)

#### Tensile Strength, psi (MPa) ASTM C 190

1 day.....	300 (2.1)
7 days.....	630 (4.3)
28 days.....	740 (5.1)

#### Splitting Tensile Strength, psi (MPa) ASTM C 496

1 day.....	940 (6.5)
7 days.....	1450 (10.0)
28 days.....	1840 (12.7)

#### Length Change, % change ASTM C 157\*

1 day.....	0.021
7 days.....	0.023
28 days.....	0.027

#### Freeze-Thaw Durability, ASTM C 666 300 cycles

Weight Loss, % of zero cycles..... 0.0

#### Chloride Permeability ASTM C 1202\*

Coulombs..... 1140 "low"

Typical results obtained under laboratory conditions

\* Per ICRI Guideline 03740 "Data Sheet" Protocol.

## PACKAGING

TAMMS FORM AND POUR is packaged in 50 lb (22.7 kg) poly-lined bags.

## SHELF LIFE

1 year in original, unopened package.

## COVERAGE

One 50 lb. bag yields approximately 0.42 ft<sup>3</sup> (0.01 m<sup>3</sup>).

## DIRECTIONS FOR USE

**Surface Preparation:** Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to a minimum depth of 3/4" (1.9 mm) to achieve a surface profile equal to CSP 8 - 9 in accordance with ICRI Guideline 03732. Properly clean profiled area.

Flowable, Shrinkage Compensated Concrete w/Corrosion Inhibitor

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**Priming:** Clean and prime exposed steel with DURALPREP AC. Concrete should be primed with a spray or brush coat of DURALPREP AC. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of TAMMS FORM & POUR (horizontal only). The repair must be made before the scrub coat dries out.

**Mixing:** TAMMS FORM AND POUR requires 3 qts (2.8 L) of mix water per 50 lb (22.7 kg) bag. Use power drill with a jiffy type mixer to mix small quantities. For larger applications use a paddle type mortar mixer or a standard concrete mixer. Do not add additional water. Mix for 2 to 3 minutes until a smooth flowable consistency is achieved. For application depths in excess of 3 in (7.62 cm) add 30 pounds of 3/8" to 1/2" (0.95 to 1.27 cm) clean, saturated surface dry pea gravel per 50 lb (22.7 kg) bag of TAMMS FORM AND POUR.

**Application:** The unrestrained surface area of the repair should be kept to a minimum. TAMMS FORM AND POUR should be mixed, placed and finished within 30 minutes. Pour the mixed material into the prepared area to be patched. Screed and trowel the material so as to level with the existing concrete. If required, lightly trowel to seal the edges, and finish the surface as desired. Do not over-trowel or feather-edge. Follow ACI guidelines for proper curing. On windy or hot days or when under direct sunlight, wet curing is recommended.

## CLEAN-UP

Clean application tools and mixer with water immediately after use. Hardened TAMMS FORM AND POUR will be difficult to remove.

## PRECAUTIONS/LIMITATIONS

- Minimum depth of patching is 3/4" (1.9 cm).
- Do not add any additives to TAMMS FORM AND POUR.
- The patch area should be frost free prior to application.
- Do not apply at temperatures below 40°F (4°C).
- In all cases, consult the Material Safety Data Sheet before use.