



EUCLID CHEMICAL

TAMMS FORM AND POUR

Flowable, Shrinkage Compensated Repair Mortar with Corrosion Inhibitor

Description

TAMMS FORM AND POUR is a flowable, single component cementitious concrete repair mortar. It is formulated for structural repairs from 3/4 inch (1.9 cm) to 3 inches (7.6 cm) neat, 3/4 inch (1.9 cm) to 8 inches (20.3 cm) when repairing within the rebar mat/cage neat, and full depth when extended. TAMMS FORM AND POUR utilizes a smaller aggregate size, which makes it highly flowable and pumpable.

Primary Applications

- Interior and exterior
- Repair and replacement of concrete elements
- Structural/column repairs where a highly flowable material is required
- Filler for large voids and cavities

Features/Benefits

- Can be extended with pea gravel
- Excellent freeze-thaw resistance
- Requires only the addition of water
- High bond strength
- Contains an integral corrosion inhibitor
- Flowability enables pouring or pumping into rebar-filled cavities
- Compatible with galvanic anodes

Technical Information

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Compressive Strength, psi (MPa) ASTM C109

1 day.....	5,000 (34.5)
3 days.....	7,000 (48.3)
7 days.....	8,000 (55.1)
28 days.....	10,000 (69.0)

Flexural Strength, psi (MPa) ASTM C348

7 days.....	1,500 (10.3)
28 days.....	2,000 (13.8)

Splitting Tensile Strength, psi (MPa) ASTM C496

7 days.....	400 (2.8)
28 days.....	550 (3.8)

Shrinkage, % ASTM C157

(3"x3"x11" specimens were removed from molds @ 24 hours)	
3 days.....	-0.022
7 days.....	-0.033
28 days.....	-0.064

Freeze-Thaw Durability, ASTM C666

300 cycles.....	97 relative dynamic modulus
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Chloride Permeability ASTM C1202

Coulombs.....	3,000
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Surface Resistivity FM 578

28 days.....	16.5 kΩ-cm
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Packaging

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

Shelf Life

2 years in original, unopened package

Coverage

One 50 lb bag yields approximately 0.42 ft³ (0.01 m³)

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 achieve a surface profile equal to CSP 7 - 9 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming & Bonding (Saw Cut & Chipped Out Repairs, Form & Pour Repairs): Thoroughly clean any exposed reinforcing steel, and apply DURALPREP A.C. to the concrete and the reinforcing steel within the repair area. Refer to the DURALPREP A.C. technical data sheet for full instructions. Alternatively, application of EUCOWELD 2.0 to a dry substrate or a scrub coat of TAMMS FORM AND POUR to the saturated surface dry (SSD) concrete surface may be used for bonding. The repair material must be placed on the scrub coat before the scrub coat dries out.

Formwork: For building forms, refer to ACI 347R - Guide to Formwork for Concrete. Forms should be filled with water 24 hours prior to placement of TAMMS FORM AND POUR to ensure tightness and adequate saturation. Ensure forms are completely drained before pouring of product and any drainage outlets are sealed.

Mixing: TAMMS FORM AND POUR requires 2.75 to 3 qt (2.6 to 2.8 L) of mix water per 50 lb (22.7 kg) bag. Use a drill with a "jiffy" type mixer to mix single bags. 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 applications not encasing a rebar cage/mat in depths in excess of 3" (7.6 cm), add 30 lb of 3/8" (0.95 cm) clean, saturated surface dry (SSD) pea gravel.

Application: TAMMS FORM AND POUR may be used for repairs from 3/4 inch (1.9 cm) to 3 inches (7.6 cm) neat, 3/4 inch (1.9 cm) to 8 inches (20.3 cm) when repairing within the rebar mat/cage neat, and full depth when extended. TAMMS FORM AND POUR should be mixed, placed and finished within 30 minutes. Pour the mixed material into the prepared area to be repaired. Screed and trowel the material so as to level with the existing concrete. Finish the surface as desired. Do not over-trowel or featheredge. 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 repair is 3/4" (1.9 cm).
- Do not add any admixtures to TAMMS FORM AND POUR.
- When necessary, follow the recommendations in ACI 305R "Guide to Hot Weather Concreting" or ACI 306R "Guide to Cold Weather Concreting".
- The repair area should be frost free prior to application.
- Do not apply at temperatures below 40°F (4°C).
- In all cases, consult the Safety Data Sheet before use.

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