

HORIZONTAL REPAIR

Master Format #: 03 01 30.71



TAMMS FORM AND POUR

FLOWABLE, SHRINKAGE COMPENSATED REPAIR MORTAR WITH CORROSION INHIBITOR

EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bags
Code: TR5001650MS

APPROXIMATE YIELD

50 lb (22.7 kg) unit: 0.42 ft³ (0.012 m³) per unit when mixed with 3 quarts (2.8 L) of potable water.

Extended: 0.62 ft³ (0.018 m³) per unit when extended with up to 30 lbs (13.6 kg) of pea gravel. See full extending instructions under "Directions for Use".

MINIMUM/MAXIMUM APPLICATION THICKNESS

Neat: 3/4 to 3 inches (19 to 76 mm), up to 8 inches (203.2 mm) within rebar mat/cage

Extended: Up to full depth

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

2 years in original, unopened package

DESCRIPTION

TAMMS FORM AND POUR is a flowable, single component cementitious micro-concrete. It is formulated for structural repairs from 3/4 inch (19 mm) to 3 inches (76 mm) neat, 3/4 to 8 inches (19 to 203.2 mm) 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.

PRODUCT CHARACTERISTICS

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

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

The following coverage rates are approximations based on yield of a 50 lb (22.7 kg) unit mixed at standard consistency.

Application Thickness	3/4 in. (19 mm)	1 in. (25.4 mm)	1 1/2 in. (38.1 mm)	2 in. (50.8 mm)	3 in. (76.2 mm)
Coverage Area per Unit	6.7 ft ² (0.62 m ²)	5.0 ft ² (0.46 m ²)	3.3 ft ² (0.31 m ²)	2.5 ft ² (0.23 m ²)	1.6 ft ² (0.15 m ²)

TECHNICAL INFORMATION

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

Test Method	Test Property	Values
ASTM C109	Compressive Strength	1 day 5,000 psi (34.5 MPa) 3 days 7,000 psi (48.3 MPa) 7 days 8,000 psi (55.1 MPa) 28 days 10,000 psi (69.0 MPa)
ASTM C348	Flexural Strength	7 days 1,500 psi (10.3 MPa) 28 days 2,000 psi (13.8 MPa)
ASTM C496	Splitting Tensile Strength	7 days 400 psi (2.8 MPa) 28 days 550 psi (3.8 MPa)
ASTM C157*	Shrinkage	3 days - 0.022% 7 days - 0.033% 28 days - 0.064%
ASTM C666 Procedure A	Freeze/Thaw Resistance	300 cycles 97 relative dynamic modulus
ASTM C1202	Chloride Permeability	3,000 coulombs
FM 578	Surface Resistivity	28 days 16.5 kΩ-cm

*3" x 3" x 11" (76.2 x 76.2 x 279.4 mm) specimens were removed from molds @ 24 hours

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.

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" (76 mm), add 30 lb of 3/8" (9.5 mm) clean, saturated surface dry (SSD) pea gravel.

Application: TAMMS FORM AND POUR may be used for repairs from 3/4 to 3 inches (19 to 76 mm) neat, 3/4 to 8 inches (19 to 203.2 mm) 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.

PRECAUTIONS/LIMITATIONS

- Minimum depth of repair is 3/4" (19 mm).
- 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.

Rev. 12.22

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.