

HORIZONTAL REPAIR

Master Format #: 03 01 30.71

TAMMS THIN PATCH

POLYMER MODIFIED, MULTI-USE REPAIR MORTAR



EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bags

Code: TR5109650

25 lb (11.3 kg) pails

Code: TR5109725

APPROXIMATE YIELD

50 lb (22.7 kg) unit: 0.4 ft³ (0.01 m³) per unit when mixed with 3.5 quarts (3.3 L) of potable water.

MINIMUM/MAXIMUM APPLICATION THICKNESS

Neat: featheredge to 1 inch (2.5 cm)

Extended: Up to full depth

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

18 months in original, unopened package

SPECIFICATIONS AND COMPLIANCES

Canadian Food Inspection Agency compliant

DESCRIPTION

TAMMS THIN PATCH is a polymer modified, cement based mortar formulated for repairing defects in concrete and masonry surfaces from featheredge up to 1 inch (2.54 cm).

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Single component
- Long-term durability
- Polymer modified to improve strength properties

PRIMARY APPLICATIONS

- Horizontal, vertical or overhead repairs
- Interior and exterior use
- Fill small holes, honeycomb and spalled areas
- Repoint mortar joints

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

Application Thickness - inches (mm)	1/16 (1.6)	1/8 (3.2)	1/4 (6.4)	3/8 (9.5)	1/2 (13)	3/4 (19)	1 (25)
Coverage Area per Unit - ft ² (m ²)	76.8 (7.2)	36.4 (3.4)	19.2 (1.8)	12.8 (1.2)	9.6 (0.9)	6.4 (0.6)	4.8 (.45)

TECHNICAL INFORMATION

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

Test Method	Test Property	Values
ASTM C266	Set Times	Initial Set . . . approximately 30 to 60 minutes Final Set approximately 1 to 2 hours
ASTM C109	Compressive Strength	1 day 1,200 psi (8.3 MPa) 28 days 3,500 psi (24.1 MPa)
ASTM C496	Splitting Tensile Strength	7 days 200 psi (1.4 MPa) 28 days 290 psi (2.0 MPa)
ASTM C348	Flexural Strength	7 days 630 psi (4.3 MPa) 28 days 725 psi (5.0 MPa)
ASTM C157*	Shrinkage	7 days - 0.006% 28 days - 0.021%
ASTM C672	Scaling Resistance	50 cycles 0% loss

*3" x 3" x 11" specimens were removed from molds @ 24 hours

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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 of CSP 4 or greater in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming & Bonding (Horizontal Toppings): For the best adhesion to concrete, use EUCOFLOOR EPOXY PRIMER seeded with sand as the bonding coat. Refer to the EUCOFLOOR EPOXY PRIMER technical data sheet for full instructions. Alternatively, application of EUCOWELD 2.0 to a dry substrate or a scrub coat of TAMMS THIN PATCH to the saturated surface dry (SSD) concrete surface may be used for bonding. The topping material must be placed on the scrub coat before the scrub coat dries out.

Priming & Bonding (Saw Cut & Chipped Out 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 or a scrub coat of TAMMS THIN PATCH 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.

Priming & Bonding (Vertical Skim Coats/Toppings): Apply EUCOWELD 2.0 or a scrub coat of TAMMS THIN PATCH to the saturated surface dry (SSD) concrete surface. The repair material must be placed on the scrub coat before the scrub coat dries out.

Mixing: One 50 lb (22.7 kg) unit requires 3.25 to 3.5 qt (3.1 to 3.3 L) of potable water. All materials should be in the proper temperature range of 60 to 90 °F (15 to 32 °C). Single 50 lb (22.7 kg) units may be mixed with a drill and “jiffy” mixer. A paddle type mortar mixer or pan mixer may be used for large jobs. Add the appropriate amount of potable water to a clean mixing vessel, then gradually add the dry product. Do not exceed maximum water or add any additional additives. Mix for 3 to 5 minutes. Do not retemper.

Placement: Ambient and surface temperatures should be at least 40 °F (4 °C) during and for 24 hours after application. Apply with a trowel using sufficient pressure to fill surface holes and voids and to ensure maximum bond to the substrate. On large areas, use a screed to obtain a uniform level before troweling. If placing thicker than 1” (2.5 cm), material should be placed in multiple lifts. If multiple lifts are to be applied, score the previous lift after placing to provide a suitable surface for mechanically bonding subsequent lifts.

Finishing: Finish the repair material to the desired texture. Do not add water to the surface during the finishing operation. Do not over trowel. When placing under hot and windy conditions, the use of EUCOBAR evaporation retarder is recommended to prevent the loss of surface moisture. Always re-establish floor and slab joints when using this product as a finished surface.

Curing and Sealing: Proper curing procedures are important to ensure the durability and quality of the repair. For best results cure with wet burlap, plastic, or a water-based curing compound such as DIAMOND CLEAR VOX or SUPER DIAMOND CLEAR VOX. Do not use a solvent based curing compound on this product.

PRECAUTIONS/LIMITATIONS

- Store in a dry place.
- Application temperatures below 60 °F (16 °C) will extend set time.
- Do not apply to frozen or frost filled surfaces, at temperatures below 40 °F (4 °C) or if temperature is expected to fall below 40 °F (4 °C) within 24 hours.
- Keep repair product from freezing until a minimum strength of 3,000 psi (21 MPa) is reached.
- When necessary, follow the recommendations in ACI 305R “Guide to Hot Weather Concreting” or ACI 306R “Guide to Cold Weather Concreting”.
- Do not use DURALPREP A.C. as a bonding agent for toppings and overlays done with TAMMS THIN PATCH.
- Do not use TAMMS THIN PATCH in joints or cracks that are subject to movement.
- Do not apply TAMMS THIN PATCH in more than 1” (25 mm) deep lifts.
- Do not over-work or over-trowel the repair.
- Protect from rain for 24 hours after placement.
- On windy or hot days or for application in direct sunlight, use wet burlap or plastic sheet for curing.
- In all cases, consult the Safety Data Sheet before use.

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