



# TAMMS THIN PATCH

## POLYMER MODIFIED, MULTI-USE REPAIR MORTAR

HORIZONTAL REPAIR

### 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" (2.54 cm).

### PRIMARY APPLICATIONS

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

### FEATURES/BENEFITS

- Single component
- Long-term durability
- Outstanding bond strength

### TECHNICAL INFORMATION

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

#### Set Times ASTM C 266

Initial set.....approx. 30 to 60 min

Final set.....approx. 1 to 2 hr

#### Compressive Strength psi (MPa) ASTM C 109

1 day.....1,200 (8.3)

28 day.....3,500 (24.1)

#### Split Tensile Strength psi (MPa) ASTM C 496

7 day.....200 (1.4)

28 day.....290 (2.0)

#### Flexural Strength psi (MPa) ASTM C 348

7 day.....630 (4.3)

28 day.....725 (5.0)

#### Shrinkage % ASTM C 157 (3"x3"x11" specimens removed from molds @ 24 hours)

7 day.....-0.006%

28 days.....-0.021%

#### Scaling Resistance ASTM C 672

50 cycles.....0% loss

### SHELF LIFE

18 months in original, unopened package

### PACKAGING

TAMMS THIN PATCH is packaged in 25 lb (11.3 kg) plastic pails, and 50 lb (22.7 kg) poly lined bags

### COVERAGE/YIELD

A 50 lb (22.7 kg) bag of TAMMS THIN PATCH will yield approximately 0.4 ft<sup>3</sup> (0.01 m<sup>3</sup>) of material.

Applied at the following thicknesses, one 50 lb (22.7 kg) bag of TAMMS THIN PATCH will cover:

1/4" (6.3 mm) 19.2 ft<sup>2</sup> (1.78 m<sup>2</sup>)

1/2" (12.7 mm) 9.6 ft<sup>2</sup> (.891 m<sup>2</sup>)

1" (25.4 mm) 4.8 ft<sup>2</sup> (.445 m<sup>2</sup>)

**Note:** Coverage rates are approximate and are for estimating purposes only

### SPECIFICATIONS/COMPLIANCES

Canadian Food Inspection Agency compliant

TAMMS THIN PATCH

MASTER FORMAT #: 03 01 30.71

## 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 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) bag of TAMMS THIN PATCH will require 3.25 to 3.5 qt (3.1 to 3.3 L) of potable water. Mix TAMMS THIN PATCH in a clean container using a slow speed drill and mixing blade. Pour potable water into the clean container and then gradually add the TAMMS THIN PATCH. Mix thoroughly to disperse all ingredients and to achieve a trowelable consistency. Do not use excess water, and do not retemper TAMMS THIN PATCH.

**Application:** Apply sufficient pressure to fill all holes and voids, then trowel to a smooth finish. On large areas, use a screed to obtain a uniform level before troweling. Do not over-trowel. TAMMS THIN PATCH will achieve initial set in approximately 40 minutes; final set in approximately 1 hour, and cures within 24 hours under normal drying conditions. Maximum thickness of application is 1" (25 mm) per lift. When applying multiple lifts, allow prior lift to reach final set, score the surface then place the subsequent lift.

## CLEAN-UP

Clean all mixing and application equipment with water immediately following use. If material is allowed to dry on a surface, removal becomes extremely difficult.

## PRECAUTIONS/LIMITATIONS

- 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.
- Application temperatures below 60°F (16°C) will extend set time.
- When necessary, follow the recommendations in ACI 305R "Guide to Hot Weather Concreting" or ACI 306R "Guide to Cold Weather Concreting".
- On windy or hot days or for application in direct sunlight, use wet burlap or plastic sheet for curing.
- 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.
- Do not add more water than recommended.
- Protect from rain for 24 hours after placement.
- In all cases, consult the Safety Data Sheet before use.

Rev. 01.20

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