



# TAMMSPATCH II

## TWO COMPONENT REPAIR MORTAR AND UNDERLAYMENT

HORIZONTAL REPAIR

### DESCRIPTION

TAMMSPATCH II is a two component, polymer modified cementitious repair mortar and flowable underlayment. When the two components are combined, TAMMSPATCH II becomes a versatile mortar for numerous applications, due to its ability to be mixed to different consistencies. From flowable to firm, TAMMSPATCH II provides an aesthetically pleasing surface in multiple applications.

### PRIMARY APPLICATIONS

- Resurfacing worn concrete walkways
- Trowelable repair mortar
- Decorative overlays
- Horizontal or vertical repairs
- Pointing mortar joints
- Flowable underlayment

### FEATURES/BENEFITS

- Apply from featheredge to 1" (2.5 cm) per lift neat, up to 2.5" (6.3 cm) if extended
- Highly durable
- Outstanding bond strength
- High strength
- User friendly

### TECHNICAL INFORMATION

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

**Initial Set**, hrs.....approx. 1.5 to 3

**Final Set**, hrs.....approx. 4 to 5

**Compressive strength**,psi (MPa) ASTM C109

7 days.....3,000 (20.7)

28 days.....5,000 (34.5)

**Direct Tensile strength**, psi (MPa) ASTM C1583

7 days.....525 (3.6)

28 days.....650 (4.5)

**Flexural strength**, psi (MPa) ASTM C348

7 days.....600 (4.1)

28 days.....900 (6.2)

**Bond strength**, psi (MPa)ASTM C882

7 days.....950 (6.6)

28 days.....1,450 (10.0)

**Shrinkage**, % ASTM C157 (3"x3"x11" specimens were removed from molds @ 24 hours)

28 days.....-0.023%

**Freeze thaw durability factor**, ASTM C666

300 cycles.....91.0%

### PACKAGING/YIELD

TAMMSPATCH II Part A (powder) is packaged in a 45 lb (20.4 kg) bag. Part B (liquid) is packaged in a 1 gal (3.7 L) jug. A mixed unit will yield approximately 0.42 ft<sup>3</sup> (0.011 m<sup>3</sup>).

### SHELF LIFE

18 months in original, unopened packaging

### SPECIFICATIONS/COMPLIANCES

Canadian MTQ

Canadian Food Inspection Agency compliant

TAMMSPATCH II

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 at least CSP 4 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 TAMMSPATCH II 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 TAMMSPATCH II 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 TAMMSPATCH II 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:** In a clean container, add 3/4 of liquid (Part B). Using a 1/2" slow speed (400 to 600 rpm) drill and a "Jiffy" mixer, gradually add the powder (Part A) to produce a mortar with a smooth consistency and without lumps. Add remaining liquid to obtain desired consistency. Do not mix longer than 3 minutes. Do not add water. If extending with an aggregate, the use of a mortar mixer is recommended. The aggregate should be added after the powder is added to the liquid. To fill areas deeper than 1" (2.5 cm), TAMMSPATCH II should be extended with up to 20 lb (9.1 kg) of clean, 3/8" (0.95 cm) pea gravel. When extended, TAMMSPATCH II can be applied in lifts of up to 2.5" (6.3 cm). Use multiple lifts for deeper repairs.

**Application:** Expansion and control joints must be extended up through TAMMSPATCH II. Moving cracks will "telegraph" a crack through TAMMSPATCH II if they are covered over. Apply TAMMSPATCH II with a trowel using sufficient pressure to fill surface holes and voids and to ensure maximum bond to the substrate. A broom, float or steel trowel finish may be applied to the surface. Avoid excessive troweling, as this will weaken the surface. When using as a wearing surface, mix to a stiffer consistency (use less than full container of mixing liquid) and install to a minimum thickness of 3/8" (0.95 cm). Do not featheredge when using as a wearing surface.

**Curing:** For best results cure with wet burlap, plastic or a water-based curing compound. Take precautions when placing during difficult conditions when the chance for rapid surface drying is evident such as: high winds, high temperatures, or low humidity. Do not use solvent based curing compounds on this product.

## CLEAN-UP

Clean tools and equipment with water before TAMMSPATCH II hardens. Hardened TAMMSPATCH II will require mechanical abrasion for removal.

## PRECAUTIONS/LIMITATIONS

- Store in protected, dry storage at temperatures between 40°F to 90°F (4°C to 32°C).
- Protect from freezing.
- Do not apply TAMMSPATCH II below 40°F (4°C).
- 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 TAMMSPATCH II.
- Do not apply to a frost filled surface.
- Prior to coating TAMMSPATCH II with an epoxy or other non-breathable coating, verify that all moisture is out of the product prior to application.
- In all cases, consult the Safety Data Sheet before use.

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