HORIZONTAL REPAIR

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TAMMSPATCH II

TWO COMPONENT REPAIR MORTAR AND UNDERLAYMENT

EUCLID CHEMICAL

PACKAGING

45 lb (20.4 kg) bag and 1 gal (3.8 L) jug
Code: TR5112845501 (bag and jug)
Code: TR5112745501 (contractor kit)

APPROXIMATE YIELD

45 lb (20.4 kg) unit: 0.42 ft³ (0.011 m³) per unit when mixing Part A powder with Part B liquid.

Extended: 0.55 ft³ (0.016 m³) per unit when extended with 20 lbs (9.1 kg) of pea gravel. See full extending instructions under "Directions for Use".

MINIMUM/MAXIMUM APPLICATION THICKNESS

Neat: Featheredge to 1 inch (2.5 cm)
Extended: 1 to 2.5 inches (2.5 to 6.4 cm)

CLEAN UP

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

SHELF LIFE

18 months in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- Canadian Food Inspection Agency, and MTQ

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.

PRODUCT CHARACTERISTICS

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

PRIMARY APPLICATIONS

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

COMMON METHODS

- Trowelable (horizontal applications)

PHYSICAL PROPERTIES

One 45 lb bag (Part A) mixes with one 1 gal (3.8 L) jug (Part B).

Working Time:	45 minutes
Initial Set:	1.5 to 3 hours
Final Set:	4 to 5 hours

Physical properties based on measurements at 70 °F in laboratory conditions.

The following coverage rates are approximations based on yield of a 45 lb unit mixed at standard consistency.

Application Thickness (inches)	1/16	1/8	1/4	3/8	1/2	3/4	1
Coverage Area per Unit (ft²)	76.8	38.4	19.2	12.8	9.6	6.4	4.8

TECHNICAL INFORMATION

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

Test Method	Test Property	Values
ASTM C109 2″ (50 mm) cubes	Compressive Strength	7 days . . . . . 3,000 psi (20.7 MPa) 28 days . . . . . 5,000 psi (34.5 MPa)
ASTM C1583	Direct Tensile Strength	7 days . . . . . 525 psi (3.6 MPa) 28 days . . . . . 650 psi (4.5 MPa)
ASTM C348	Flexural Strength	7 days . . . . . 600 psi (4.1 MPa) 28 days . . . . . 900 psi (6.2 MPa)
ASTM C882	Bond Strength	7 days . . . . . 950 psi (6.6 MPa) 28 days . . . . . 1,450 psi (10.0 MPa)
ASTM C157*	Shrinkage	28 days . . . . . .- 0.023%
ASTM C666	Freeze Thaw Durability	300 cycles 91.0%

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

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: One 45 lb (22.7 kg) unit requires one unit of TAMMSPATCH II mixing liquid. All materials should be in the proper temperature range of 50 to 90 °F (10 to 32 °C). Single 45 lb (22.7 kg) units may be mixed with a drill and "jiffy" mixer. Add 75% of the mixing liquid to a clean mixing vessel, then gradually add the dry product. Add up to the remaining 25% of mixing liquid to obtain desired consistency. Do not exceed maximum liquid or add any additional additives. Do not mix longer than 3 minutes. Do not retemper.

Extending Instructions (Optional): When extended, TAMMSPATCH II may be applied in lifts of up to 2.5" (6.3 cm). One 45 lb (22.7 kg) unit may be extended by adding 20 lb (9.1 kg) of clean, SSD, 3/8" (9.5 mm) rounded pea gravel (#8, ASTM C33) to the mix. The pea gravel must be dense and non-absorptive per ASTM C127 and non-reactive (ASR) per ASTM C227, C289 and C1260.

Application: Ambient and surface temperatures should be in the range of 40 to 90 °F (4 to 32 °C). Apply with a trowel using sufficient pressure to fill surface holes and voids and to ensure maximum bond to the substrate. 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. If placing thicker than 1" (2.5 cm), material should be extended or 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: A broom, float or steel trowel finish may be applied to the surface. Avoid excessive troweling, as this will weaken the surface. Do not add water to the surface during the finishing operation. 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.
- Do not allow liquid (Part B) component to freeze.
- Minimum application temperature is 40 °F (4 °C).
- The repair area should be free of frost prior to application.
- Protect from freezing.
- Do not use DURALPREP A.C. as a bonding agent for toppings and overlays done with TAMMSPATCH II.
- When necessary, follow the recommendations in ACI 305R "Guide to Hot Weather Concreting" or ACI 306R "Guide to Cold Weather Concreting".
- 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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