



TECHNICAL DATA SHEET

TAMMSPATCH II

Two Component Repair Mortar and Underlayment

03930

CONCRETE REHABILITATION
CONCRETE

1. **DESCRIPTION:** TAMMSPATCH II is a two component polymer reinforced, cementitious mortar and underlayment.

FEATURES AND BENEFITS

- Featheredge to one inch, 2.5" if extended
- High durability
- Outstanding bond strength
- High strength
- User friendly
- Moist curing normally not required
- USDA compliant
- Color controlled

APPLICATIONS

- Flowable underlayment
- Trowelable repair mortar
- Topping product
- Horizontal, vertical or overhead repairs
- Repoint mortar joints

2. **SURFACE PREPARATION:** Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and clean of dust, dirt and other contaminants. Clean exposed steel and reinforcing. DURALPREP AC is recommended as a bonding agent for exposed reinforcing steel. Abrade non absorptive surfaces to obtain a proper profile for good adhesion. Flush area with clean water to remove all dust and to dampen the concrete. Remove any puddles before applying TAMMSPATCH II. The surface should remain damp during placement

3. **MIXING INSTRUCTIONS:** In a clean container, add 3/4 of liquid (Component B). Using a 1/2" slow speed (400-600 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, 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 1.0 inch (2.54 cm), TAMMSPATCH II should be extended with up to 20 pounds of clean, saturated surface dry (SSD), 3/8 inch (0.95 cm) pea rock or chip stone. TAMMSPATCH II may be extended for patching depths greater than 0.5". When extended, TAMMSPATCH II can be applied in lifts of up to 2.5 inches. Use multiple lifts to patch deeper depths.

TAMMS INDUSTRIES
NOVEMBER 2003 (Replaces 2/03)

Material Properties at 75°F	
ASTM C266 (Gilmore)	
Initial Set, Hours	1.5-3
Final Set, Hours	4-5
ASTM C109	
Compressive Strength, psi	
3 days	2,500
7 days	3,800
28 days	5,000
Tensile Strength, psi	
28 days	650
ASTM C78	
Flexural Strength, psi	
7 days	700
28 days	900
ASTM C1042	
Bond Strength, 28 days, psi	1450
ASTM C157	
Shrinkage, 28 days, %	0.0011
ASTM C666	
Freeze Thaw Durability Factor, 300 cycles	99.4%

4. **APPLICATION TECHNIQUES:** Apply TAMMSPATCH II to a dampened surface. For best results use HORNWELD as a bonding agent or apply a bond slurry coat scrubbed into the surface. If a slurry coat is used, the TAMMSPATCH II must be applied before the slurry coat dries. Expansion joints and control joints must be extended through TAMMSPATCH II. Moving cracks will "telegraph" through TAMMSPATCH II. 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, wood float or steel trowel finish may be applied to the surface. Avoid excessive trowelling, as this will weaken the surface of TAMMSPATCH II. For repair depths greater than 1.0 inch, extend with up to 20 pounds of clean, dry pea gravel per bag of TAMMSPATCH II.

UNDERLAYMENT OR TOPPING: Apply from featheredge to 2.5 inch. Pea gravel may be added when the depth exceeds 0.5 inches and should be added when the depth exceeds 1.0 inch. 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 inch. Do not featheredge when using as a wearing surface.

TROWEL APPLIED PATCHING: Mix to a stiff consistency, using less than the full gallon of mixing liquid per bag of TAMMSPATCH II. Lubricate trowel and other tools with mixing liquid to prevent dragging.

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CURING: For best results cure with wet burlap, plastic or a water based curing compound in conditions of rapid surface drying - high winds, high temperatures or low humidity. Do not use solvent based curing compounds.

5. **YIELD:** One 45 bag of powder when mixed with one gallon of liquid will yield approximately 0.42 cu. ft.

6. **CLEAN-UP INSTRUCTIONS:** Clean tools and equipment with water before TAMMSPATCH II hardens. Hardened TAMMSPATCH II will require mechanical abrasion for removal.

7. **PACKAGING:** 45 lb. bag as Powder Part A. One gallon liquid as Part B.
Storage: 40°-90°F in protected, dry storage. Protect from freezing.
Shelf Life: 1 year.
Freight Class: 55.

8. **CAUTIONS:** Dampen surfaces before applying or use a bonding agent. Do not apply TAMMSPATCH II below 40°F (7.22°C). Do not apply to a frost filled surface.

9. **ENVIRONMENTAL AND SAFETY PRE-CAUTIONS:** Part A contains Portland cement which is alkaline on contact with water. Do not breathe dust. May cause delayed lung injury (Silicosis). IARC reports Crystalline silica may cause cancer in humans. Irritating to eyes and skin. Avoid splashing into eyes or contact with skin. In case of eye contact, flood eyes repeatedly with potable water and call a physician. **DO NOT RUB EYES.** Wash skin thoroughly after handling and before smoking or eating. Use adequate ventilation. Part B contains a polymer. Avoid breathing vapors or mist. Irritating to eyes and skin. Avoid splashing into eyes or contact with skin. In case of eye contact, flood eyes repeatedly with potable water and call a physician. **DO NOT RUB EYES.** Wash skin thoroughly after handling and before smoking or eating. Use adequate ventilation. **READ MATERIAL SAFETY DATA SHEET BEFORE USING. FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. EMERGENCY RESPONSE: 800-424-9300 (CHEMTREC) OR 800-862-2667 (TAMMS).**

10. **TECHNICAL SERVICE:** For Technical Service on all Tamms' products contact the Technical Service Center at:

TAMMS INDUSTRIES, INC.
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800-862-2667 FAX: 815-522-2323
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