



TECHNICAL DATA SHEET

TAMMSPATCH

Two Component Concrete Repair Mortar

03930

CONCRETE REHABILITATION
CONCRETE

TAMMS INDUSTRIES
JANUARY 2000
(Replaces 5/99)

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- DESCRIPTION:** TAMMSPATCH is a two component concrete repair compound consisting of a portland cement based dry ingredient and a polymer based liquid admixture. TAMMSPATCH is formulated for durability, crack resistance, and exceptional bond strength. It is used for the repair of concrete and masonry, and it is applied from featheredge up to 1 inch (2.5 cm) thickness in one application.
- USES:** TAMMSPATCH is used exterior or interior, above or below grade, on vertical or horizontal surfaces. TAMMSPATCH is used to fill small voids or honeycomb in precast and poured-in-place concrete, to level or resurface concrete sidewalks and driveways, to repair non-moving cracks in concrete and masonry walls, and to repoint mortar joints in concrete block or brick masonry. When mixed as a slurry, TAMMSPATCH may be brushed onto the surface as a bonding primer for concrete toppings or cementitious coatings.
- COMPOSITION AND MATERIALS:** TAMMSPATCH powder is a proprietary blend of portland cements and finely graded aggregates. TAMMSPATCH liquid is an advanced proprietary polymer formulation designed to aid curing, and to increase adhesive, compressive, flexural, and tensile strengths.
- SURFACE PREPARATION:** Surface must be structurally sound, clean, and free of dust, dirt, and contaminants. Abrasiveblast, shotblast, or mechanically abrade the surface to remove laitance, coatings, deteriorated concrete, or other substances which might interfere with adhesion. Clean and properly prime exposed reinforcing.
- MIXING INSTRUCTIONS:** Mix TAMMSPATCH with a slow speed motor and mixing blade. Do not aerate mixture. Small quantities may be mixed by hand with a trowel. Pour approximately 3/4 of the liquid component into a clean container. Add any aggregate to be included in the mix. Gradually add the powdered component while the mixer is running. Add the remaining liquid as needed to achieve the desired trowel or brush consistency. Continue mixing for 1 to 2 minutes to ensure that ingredients are thoroughly blended. Do not mix more TAMMSPATCH than can be applied in 1 hour.
- APPLICATION TECHNIQUES:** Before starting application, dampen the surface with potable water to the point of saturation. Pick up excess moisture, drips, and puddles from the surface. Use a steel trowel with sufficient pressure to fill surface holes and voids and to ensure maximum bond of the TAMMSPATCH with the surface. A broom, wood float, or steel trowel finish may be applied to surface. For large areas, screed the surface to level before finishing. Excessive troweling weakens the TAMMSPATCH and affects the durability of the material. Brush apply TAMMSPATCH slurry to fill voids and irregularities when it is used as a bonding primer. The new concrete topping or coating must be applied as soon as the bonding primer becomes firm and losses it surface sheen. Control joints, expansion joints, and movement cracks must be continuous through the TAMMSPATCH application. For repairs greater than 1 inch (2.54 cm) deep, add clean, dry, 3/8 to 1/2 inch (0.95 - 1.27 cm) size pea rock or chip stone to the TAMMSPATCH. The weight of the added aggregate must not exceed 50 percent of the weight of the TAMMSPATCH powder. Areas repaired with TAMMSPATCH may be opened to light foot traffic in 24 hours, and normal traffic in 48 hours under normal drying conditions. Cool or damp conditions may lengthen the drying time.
- COVERAGE:** A kit containing 50 lb (22.7 kg) of TAMMSPATCH will cover 10-12 square feet at a 1/2 inch thickness (0.93 - 1.15 sq m at 1.27 cm).

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Material Properties at 75°F

| | | |
|--------------------------------|---------------|---------|
| ASTM C266 (GILMORE) | | |
| Initial Set, Hours | 3-4 | |
| Final Set, Hours | 5-6 | |
| ASTM C109 | | |
| Compressive Strength, PSI | 3 Day | 2,915 |
| | 7 Day | 4,545 |
| | 28 Day | 6,040 |
| ASTM C109 | | |
| Tensile Strength, PSI | 28 Day Avg. | 683 |
| ASTM C78 | | |
| Flexural Strength, PSI | 3 Day | 695 |
| | 7 Day | 935 |
| | 28 Day | 1,608 |
| ASTM C157 | | |
| Shrinkage, Pct. | 7 Day Avg. | -0.075% |
| | 28 Day Avg. | -0.107% |
| ASTM C666 | | |
| Freeze-Thaw durability (avg.) | 300 cycles | 93.0 |
| ASTM C672 | | |
| Scaling Resistance - 25 cycles | Visual Rating | 0 |
| | Scaling Mass | none |

Values presented are typical and not necessarily referenced to create specifications.

8. **CLEAN-UP INSTRUCTIONS:** Clean mixing and application equipment with water immediately after use. Remove spills or splatters before the material sets. TAMMSPATCH is a cementitious product containing a liquid bonding admixture. If allowed to dry, removal becomes extremely difficult.

9. **CAUTIONS:** Do not install TAMMSPATCH in thicknesses greater than 1 inch (2.54 cm) in one application, unless pea rock or chipstone is added to the mix. TAMMSPATCH may have a mottled appearance when cured. If this is not acceptable use TAMMS THIN-PATCH instead. Do not use for overhead patching. Apply a test patch to questionable substrates. Cure the test patch for 7 days before testing for adhesion. Do not apply TAMMSPATCH to frozen or frost covered surfaces. Do not apply TAMMSPATCH when temperatures below 40°F or above 90°F (4.5°-32.2°C) are expected within 48 hours. Do not allow TAMMSPATCH liquid component to freeze.

10. **ENVIRONMENTAL AND SAFETY PRECAUTIONS: Industrial Use Only.** TAMMSPATCH powder 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. TAMMSPATCH liquid 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. **KEEP AWAY FROM CHILDREN AND ANIMALS.**

11. **PACKAGING:** Kit has 50 lbs (22.68 kg) dry powder plus 1 gal. poly bottle of liquid component in a Plastic Container.

Storage: 40-90°F (4.5-32.2°C) Protect From Freezing.

Shelf Life: One year properly stored.

Freight Class: Class 55.

12. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

TAMMS INDUSTRIES
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