TECHNICAL DATA SHEET

DUO PATCH

Two-Component Polymer-Modified Concrete Repair Mortar with Corrosion Inhibitor

DESCRIPTION

Duo Patch is a two-component, polymer-modified concrete repair mortar with integral corrosion inhibitor for horizontal and form-and-pour applications and, when mixed to a stiffer consistency, vertical and overhead applications. Duo Patch offers superior durability in industrial warehouse, parking deck and roadway applications subjected to heavy loads and abrasion.

BENEFITS

- Contains integral corrosion inhibitor
- Suitable for repairs from featheredge to 2" (51 mm)
- Interior/exterior overlayment applications
- Excellent durability and adhesion
- Excellent freeze-thaw durability
- Easy-to-trowel, high-slump consistency
- Dries to a natural concrete-gray color

APPLICATION

Surface Preparation: The concrete must be sound and free of all foreign material, including oil, grease, dust, laitance and other surface contaminants. For maximum durability, saw cut the perimeter of the repair 1/8" (3 mm) deeper than the depth of the repair, creating a notched, reinforced edge. Mechanically abrade the surface by an engineer-approved method in accordance with ICRI Guideline 310.2 to a minimum CSP 5. All surfaces to be repaired must be saturated surface-damp (SSD) with no standing water.

Priming/Scrub Coat: Thoroughly clean all exposed reinforcing steel of rust and coat with SpecPrep SB. Prepared concrete must be SSD and primed with a spray or brush coat of SpecPrep SB, with the repair mortar applied wet-on-wet or within the recommended open time (see the SpecPrep SB technical data sheet). Alternatively, apply a scrub coat of properly mixed repair mortar by scrubbing a thin layer into the pre-dampened substrate with a stiff brush, and place the repair mortar immediately, before the bond coat dries.

Mixing: Mix 7.0–7.5 pints (3.3–3.5 L) of Duo Patch Admix (depending on desired consistency) per 50 lb (22.7 kg) bag of Duo Patch powder, using a low-speed drill. Add the Duo Patch Admix to the container first, then slowly add the Duo Patch powder. Mix 2–3 minutes. Mix only what can be applied within the setting period. Do not exceed 7 pints (3.3 L) of Duo Patch Admix for applications over 1/2" (13 mm). Duo Patch can be applied from featheredge to 1" (25 mm) per lift in light-traffic applications.

Deep Applications: Extending Duo Patch with 3/8" (10 mm) pea stone in large, deep applications over 3/4" (19 mm) creates a concrete topping with thermal properties very similar to those of the concrete itself. For large repairs over 1" (25 mm), extend Duo Patch with clean, SSD 3/8" (10 mm) aggregate up to 60% by weight (30 lb / 13.6 kg) and mix an additional 2 minutes. This extension adds approximately 0.18 cu ft (5.1 L) to the unit yield and should be placed within 15–20 minutes.

Placement: Trowel, screed or pour Duo Patch firmly into the prepared area, ensuring intimate contact with the bonding surface. Finish level with the surrounding concrete and allow to take an initial set. After the initial set, when Duo Patch is surface-hard, finish by hand troweling.

Finishing/Curing: Finish the repair to the desired texture to best match the surrounding concrete. Do not add water to the surface during finishing. Lightly

spray SpecChem SpecFilm as a finishing aid on this and any other polymer-modified mortar. Duo Patch is self-curing under most conditions. In severe drying conditions, use an ASTM C309-compliant, water-based SpecChem curing compound.

TECHNICAL DATA INFORMATION

Set Time at 70 °F (ASTM C266)

Initial set ..... 40 min

Final set..... 50 min

Age	Compressive (C109)	Bond (C882 mod.)	Flexural (C348)
1 day	2,500 (17.2)	–	–
7 days	4,000 (27.6)	1,800 (12.4)	650 (4.5)
28 days	6,000 (41.4)	–	1,300 (9.0)

Values in psi (MPa).

Other Properties

Length change (C157), wet cure, 28 days .....+0.04%

Length change (C157), air cure, 28 days.....–0.02%

Yield per bag..... 0.42 cu ft (11.9 L)

PACKAGING

50 lb (22.7 kg) bag of Duo Patch + 1 gal (3.79 L) jug of Duo Patch Admix

60 lb (27.2 kg) pail unit containing a 50 lb (22.7 kg) bag of Duo Patch + 1 gal (3.79 L) jug of Duo Patch Admix

CLEANING

Tools and equipment may be cleaned with water before Duo Patch hardens.

SHELF LIFE

Shelf life of unopened bags stored in a dry facility is 12 months. Excessive temperature differential and/or high humidity can shorten the shelf life. Store in a cool, dry area away from direct sunlight. Do not allow Duo Patch Admix to freeze!

LIMITATIONS

Although Duo Patch can be featheredged, maximum durability in heavy or severe applications is achieved at a minimum thickness of 1/2" (13 mm). Do not retemper after initial mixing. Do not add other cements or additives. Duo Patch is fast setting, so clean mixing equipment with water as soon as possible. Do not exceed 7 pints (3.3 L) of Duo Patch Admix for applications over 1/2" (13 mm).

Do not allow repairs to freeze until the material has reached a minimum compressive strength of 1,000 psi (6.9 MPa). A minimum surface and ambient temperature of 45 °F (7 °C) and rising is required at the time of application. In adverse temperatures, follow ACI recommendations for hot/cold weather concreting. For optimum results, condition material to 65–85 °F (18–29 °C).

Caution: Contains portland cement and sand. Cement will cause irritation. Avoid contact. A dust respirator, safety goggles and rubber gloves are recommended. Avoid prolonged contact with clothing. In case of contact with eyes, immediately flush with water for at least 15 minutes and get prompt medical attention. Do not wear contact lenses when working with this product. DO NOT take internally. Keep out of reach of children.

Avoid hazards by following all precautions found in the Safety Data Sheet (SDS), product labels and technical literature. Please read this information prior to using the product.

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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