

DURALTOP® FAST SET

POLYMER MODIFIED, CEMENTITIOUS, HORIZONTAL REPAIR MORTAR w/CORROSION INHIBITOR

DESCRIPTION

DURALTOP FAST SET is a fast setting, two component, polymer modified, cementitious patching and repair mortar designed for horizontal concrete and masonry repairs.

PRIMARY APPLICATIONS

- Structural repairs
- Exterior and interior
- Above or below grade
- Horizontal concrete and masonry repairs

FEATURES/BENEFITS

- Fast setting, polymer modified repair mortar
- Achieves high early compressive, flexural and bond strengths
- Permits foot traffic in 2 to 4 hours, pneumatic tire traffic in 6 to 8 hours
- Contains a migratory corrosion inhibitor
- Resistance to abrasion and deicing chemicals
- Increased resistance to freeze-thaw
- Does not form a vapor barrier
- ▲ Can contribute to LEED points

TECHNICAL INFORMATION

Material Properties @ 75°F (24°C)

Compressive Strength , ASTM C 109 (Mod) psi (MPa)	
4 hours	920 (6.3)
1 day	4,000 (27.6)
3 days	5,200 (35.9)
7 days	5,890 (40.6)
28 days	7,010 (48.3)
Flexural Strength , ASTM C 293 psi (MPa)	
7 days	2,100 (14.5)
28 days	2,800 (19.3)

Bond Strength, ASTM C 882 (Mod) psi (MPa)

7 days	1,400 (9.7)
28 days	2,300 (15.9)

Splitting Tensile Strength, ASTM C 496 psi (MPa)

28 days	700 (4.8)
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Chloride Perm ASTM C 1202

120 coulombs "very low"

Freeze Thaw Durability ASTM C 666

300 cycles 99.4%
 Typical result obtained under laboratory conditions.

PACKAGING/YIELD

DURALTOP FAST SET Part A is packaged in 60 lb (27.2 kg) bag. Part B liquid in a 1 gal (3.8 L) jug.

COVERAGE/YIELD

One kit of DURALTOP FAST SET will yield approximately 0.55 to 0.60 ft³. (0.015m³). With 40 lbs (18.14 kg) of pea gravel the yield will be approximately 0.75 ft³ (0.02 m³).

SHELF LIFE

1 year in original, unopened package.

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 a minimum depth of 1/4" (6.4 cm) to achieve a surface profile equal to CSP 6 - 7 in accordance with ICRI Guideline 03732. Properly clean profiled area. **Priming:** Clean and prime exposed steel using a spray or brush coat of DURAPREP AC. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of DURALTOP FAST SET. The repair must be made before the scrub coat dries out.

Mixing: Mix only one kit of DURALTOP FAST SET at a time. In a clean container, add 4/5 of liquid Component 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 get desired consistency. Do not mix longer than 3 minutes. If extending with an aggregate, use of a mortar mixer is recommended.

DURALTOP® FAST SET
 Polymer Modified Cementitious Horizontal Repair Mortar w/Corrosion Inhibitor

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The Euclid Chemical Company

19218 Redwood Rd. • Cleveland, OH 44110
 Phone: [216] 531-9222 • Toll-free: [800] 321-7628 • Fax: [216] 531-9596
 www.euclidchemical.com

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It should be added after the powder is added to the liquid. To fill areas deeper than 1 in (2.54 cm), clean pre-dampened, 3/8 inch (0.95 cm) pea gravel or chip stone can be used to extend DURALTOP FAST SET. Do not exceed 40 lbs (18.1 kg) of aggregate for each unit of DURALTOP FAST SET.

Application: Air and surface temperature must be above 45°F (7°C). Apply DURALTOP FAST SET immediately after mixing. The working life is about 15 minutes, and finishing time about 20 to 40 minutes, depending on temperature, humidity and finish desired. Apply DURALTOP FAST SET to the prepared and primed surface. Trowel the material against the edge, and gradually work towards the center of the repair area. Each lift, a maximum of 1" (25.4 mm) at a time, should be allowed to reach final set, and then scored to produce a roughened surface before applying the next lift. Consolidate, screed, and then finish following standard practices.

Curing: Follow standard ACI guidelines for curing. In case of high temperature, high wind, or low humidity causing rapid surface drying, use wet burlap, plastic or a water based curing compound. Pre-testing of the curing compound is recommended. Protect from rain and freezing. DO NOT use solvent based curing compounds.

CLEAN-UP

Clean tools and equipment using water before DURALTOP FAST SET hardens. Scrape or mechanically remove hardened DURALTOP FAST SET from equipment.

PRECAUTIONS/LIMITATIONS

- Minimum application thickness 1/4" (6.4 mm), maximum thickness per lift 1" (25.4 mm) neat, >1" (25.4 mm) extended.
- Store at temperatures between 40°F to 90°F (4°C to 32°C). Do not allow components to freeze.
- Protect from freezing. Do not apply DURALTOP FAST SET below 45°F (7°C).
- Surfaces should be SSD before application.
- Mix only one kit at a time.
- DO NOT MIX DURALTOP FAST SET LONGER THAN 3 MINUTES.
- Apply immediately after mixing.
- Do not use solvent based curing compounds.
- In all cases, consult the Material Safety Data Sheet before use.