



EUCLID CHEMICAL

DURALTOP FLOWABLE MORTAR

TWO PART HORIZONTAL REPAIR MORTAR WITH CORROSION INHIBITOR

DESCRIPTION

DURALTOP FLOWABLE MORTAR is a two component, polymer modified, highly flowable, cementitious repair mortar. DURALTOP FLOWABLE MORTAR is a proprietary compound of portland cements, finely graded aggregates, corrosion inhibitors and specific chemical additives formulated with polymer based binders and modifiers providing superior horizontal repair performance.

PRIMARY APPLICATIONS

- Interior and exterior
- Leveling and repair of horizontal concrete surfaces
- Structural repairs
- Parking & bridge decks
- Industrial floors

FEATURES/BENEFITS

- Highly flowable repair mortar for hard to reach places
- Polymer modified
- Contains an integral corrosion inhibitor
- Excellent adhesion and durability
- Resistant to abrasion, freeze-thaw and deicing chemicals
- Pre-proportioned unit for ease of use

TECHNICAL INFORMATION

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

Compressive Strength ASTM C 109 (Mod) psi (MPa)

1 day.....	2,500 (17.2)
3 days.....	4,600 (31.7)
7 days.....	6,000 (41.4)
28 days.....	7,200 (49.6)

Flexural Strength ASTM C 293 psi (MPa)

7 days.....	1,750 (12.1)
28 days.....	2,000 (13.8)

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

7 days.....	1,100 (7.6)
28 days.....	2,450 (16.9)

Tensile Bond Strength

CAN A23.2-6B (28 days) greater than concrete

Splitting Tensile Strength, ASTM C 496 psi (MPa)

28 days.....710 (4.9)

Chloride Perm ASTM C 1202

28 days.....120 coulombs "very low"

Freeze Thaw Durability ASTM C 666

300 cycles99.4%

PACKAGING

DURALTOP FLOWABLE MORTAR Part A (powder) is packaged in 52 lb (23.6 kg) bags. Part B (liquid), is packaged in a 1 gal (3.8 L) jug.

SHELF LIFE

1 year in original, unopened package

COVERAGE/YIELD

One kit of DURALTOP FLOWABLE MORTAR will yield approximately 0.5 ft³ (0.014 m³) of mortar

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 equal to CSP 5-7 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

HORIZONTAL REPAIR

DURALTOP FLOWABLE MORTAR

MASTER FORMAT #:
03 01 30

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 DURALTOP FLOWABLE MORTAR 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, Form & Pour 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 DURALTOP FLOWABLE MORTAR 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.

Mixing: Mix only one kit of DURALTOP FLOWABLE MORTAR at a time. In a clean container, add 2/3 of liquid (Part 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 (Part B) to get desired consistency. Do not mix longer than 3 minutes. The aggregate should be added after the powder is added to the liquid. To fill areas between 1½" (3.8 cm) and 4" (10.2 cm) thick, use clean, damp 3/8" (0.95 cm) pea gravel. DO NOT USE LIMESTONE AGGREGATE. Do not exceed 35 lb (15.9 kg) of aggregate for each unit of DURALTOP FLOWABLE MORTAR.

Application: Air and surface temperature must be at least 45°F (7°C) and rising. Apply DURALTOP FLOWABLE MORTAR immediately after mixing. The approximate working life is 30 minutes depending on the temperature. Apply DURALTOP FLOWABLE MORTAR to the prepared surface, consolidate and screed as necessary. Apply the mortar in lifts of not more than 1½" (3.8 cm) if used neat, or in lifts between 1" (2.5 cm) and 4" (10.2 cm) thick if used extended with pea gravel. Follow standard procedures for finishing.

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. Protect from rain and freezing. DO NOT use solvent based curing compounds.

CLEAN-UP

Clean tools and equipment immediately after use with water. Clean up spills or drips while still wet. Dried product will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Apply immediately after mixing. Minimum application thickness 1/4" (6.4 mm), maximum application thickness 1½" (3.8 cm) neat; or 4" (10.2 cm) maximum if extended with pea gravel.
- Store at temperatures between 40°F to 90°F (4°C to 32°C). Protect from freezing.
- Do not allow liquid (Part B) component to freeze.
- Do not apply DURALTOP FLOWABLE MORTAR below 45°F (7°C).
- When necessary, follow the recommendations in ACI 305R "Guide to Hot Weather Concreting" or ACI 306R "Guide to Cold Weather Concreting".
- Mix only one unit at a time.
- DO NOT MIX DURALTOP FLOWABLE MORTAR LONGER THAN 3 MINUTES.
- SSD surface before applying.
- Do not use limestone aggregate.
- In all cases, consult the Safety Data Sheet before use.

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