



# DURALTOP FLOWABLE MORTAR

**POLYMER-MODIFIED, CEMENTITIOUS, HORIZONTAL REPAIR MORTAR WITH CORROSION INHIBITOR**

**EUCLID CHEMICAL**

HORIZONTAL REPAIR

DURALTOP FLOWABLE MORTAR

MASTER FORMAT #: 03 09 09

## 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 a migratory corrosion inhibitor
- Excellent adhesion and durability
- Resistant to abrasion, freeze-thaw and deicing chemicals
- Pre-proportioned unit for ease of use
- Can contribute to LEED points

## TECHNICAL INFORMATION

**Typical Engineering Data** Obtained Under Laboratory Conditions 23°C 50% RH

**Compressive Strength** ASTM C 109, 50 mm cubes

Age	Strength
1 day.....	17.2 MPa
7 days.....	31.7 MPa
28 days.....	41.4 MPa
56 days.....	49.6 MPa

**Flexural Strength** ASTM C 293

7 days.....	12.1 MPa
28 days.....	13.8 MPa

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

7 days.....	7.6
28 days.....	16.9

**Tensile Bond Strength**

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

**Splitting Tensile Strength**, ASTM C 496 MPa

28 days.....4.9

**Chloride Perm** ASTM C 1202

28 days.....120 coulombs “very low”

**Freeze Thaw Durability** ASTM C 666

300 cycles .....99.4%

## PACKAGING

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

## COVERAGE/YIELD

One kit of DURALTOP FLOWABLE MORTAR will yield approximately 14L of mortar.

## SHELF LIFE

1 year in original, unopened package.

## DIRECTIONS FOR USE

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**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.

**Priming:** Clean and prime exposed steel with DURALPREP AC. Concrete should be primed with a spray or brush coat of DURALPREP AC. The primer coat of DURALPREP AC must be thoroughly dry prior to the application of the repair material. Alternatively, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of DURALTOP FLOWABLE MORTAR. The repair must be made 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 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 deeper than 3.8 cm, use clean, damp 0.95 cm pea gravel. DO NOT USE LIMESTONE AGGREGATE. Do not exceed 15.9 kg of aggregate for each unit of DURALTOP FLOWABLE MORTAR.

**Application:** Air and surface temperature must be at least 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 3.8 cm. 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

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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

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- Apply immediately after mixing. Minimum application thickness 6.4 mm, maximum thickness 38.1 mm neat; greater than 38.1 mm extended.
- Store at temperatures between 4°C to 32°C. Protect from freezing.
- Do not allow liquid (Part B) component to freeze.
- Do not apply DURALTOP FLOWABLE MORTAR below 7°C.
- 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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