

# Mainstay® ML-10™

## Hydraulic Cement Mortar



### FEATURES/BENEFITS

**EASY TO USE** | **EASY TO FINISH**  
**FAST SETTING** | **MAY BE USED UNDERWATER**  
**VERY LOW SHRINKAGE** | **WATERPROOFS/DAMP-PROOFS**

### PRODUCT DESCRIPTION

**M**AINSTAY ML-10 is a fast setting blend of special cements and fillers that is used to stop leaks through cracks and holes in underground concrete and brick structures. MAINSTAY ML-10 produces excellent adhesion to properly prepared existing concrete or brick surfaces and is suitable for permanent water immersion service. MAINSTAY ML-10 can be used to repair leaks in floors and vertical and overhead surfaces of deteriorated concrete structures such as manholes, lift stations, wet wells, sewers, pits, sumps, trenches, tunnels, piers, or any concrete structure that is experiencing flowing, seeping, or weeping leaks.

### PRODUCT DATA

#### COMPOSITION:

A proprietary mixture of special hydraulic cements and fillers.

#### COLOR:

Dark gray.

#### YIELD:

0.42 cubic feet (ft<sup>3</sup>) per 50-pound (lb) pail when mixed correctly.

#### PACKAGING:

Normally stocked in 50-lb pails.

#### SURFACE PREPARATION:

Prepare surfaces to be repaired by water blasting, abrasive blasting, hand, or power tool cleaning to remove all unsound concrete, contaminants, dirt, debris, and/or deteriorated reinforcing steel. Refer to the International Concrete Repair Institute (ICRI) technical guideline titled *Surface Preparation Guidelines For The Repair Of Deteriorated Concrete Resulting From Reinforcing Steel Oxidation* and/or contact a Mainstay Technical Representative for information on removal techniques that are best for your application. Surfaces should have a minimum ICRI Concrete Surface Profile (CSP) #5 (preferably with aggregate exposed) and should be inspected for soundness

prior to the application of MAINSTAY ML-10. Saturate all surfaces thoroughly with clean water prior to the application of MAINSTAY ML-10.

#### MIXING:

Due to the fast setting characteristics of this product, it must be mixed in small quantities of one to two pounds at a time. MAINSTAY ML-10 should be mixed with just enough clean water to form a viscous lump with the consistency of modeling clay.

#### WORKING TIME:

Approximately 45 to 90 seconds at 77° Fahrenheit (F). The working time will be extended at lower temperatures and shortened when higher.

#### APPLICATION:

MAINSTAY ML-10 can be applied by hand in small quantities or with a trowel. Press the mixed material firmly into place starting at the top of the leak, and work your way down. Numerous small applications are typically required to completely seal large leaks. Consult a Mainstay Technical Representative for information regarding equipment and techniques that are best suited for your job.

#### FINISHING:

MAINSTAY ML-10 can be finished using a steel trowel, wood float, sponge float, broom, or brush, depending on the surface texture desired. If MAINSTAY ML-10 is to be covered with MAINSTAY ML-72 Sprayable Microsilica Restoration Mortar, it is recommended that the surface be given a very rough finish using a broom or stiff bristled brush. Be sure to remove any loose dust or particles of hardened material that may not be securely bonded prior to topcoating this product with MAINSTAY ML-72.

#### CURING:

No special curing requirements are necessary when applied in moist subterranean structures. When placed under fast drying conditions (in direct sunlight, high winds, or high temperatures), MAINSTAY ML-10 may be wetted occasionally during the first 24 hours of cure to slow the evaporation of mix water.

#### CLEAN UP:

Clean equipment and tools with clean tap water.

**Mainstay® ML-10 Hydraulic Cement Mortar****STORAGE:**

Check containers for damage, and verify quantities before accepting shipments. Store **MAINSTAY ML-10** in a cool, dry place.

**SHELF LIFE:**

1 year, depending on storage conditions, subject to reinspection thereafter.

**SAFETY:**

KEEP OUT OF REACH OF CHILDREN.

FOR INDUSTRIAL USE ONLY.

**MAINSTAY ML-10** contains portland cement and chemicals that *MAY CAUSE EYE, SKIN, RESPIRATORY, OR NERVOUS SYSTEM SENSITIZATION*. Adequate health and safety precautions should be observed during all

storage, handling, use, and drying periods. For best results and safest usage, user is specifically directed to consult the current Safety Data Sheet for this product. When using this product in a confined space or closed area, consult the current Occupational Safety and Health Administration (OSHA) or American National Standards Institute (ANSI) bulletins on safety requirements. Do not take internally. If swallowed, call a physician immediately. Keep away from open flame, and keep containers tightly closed when not in use.

**WARRANTY**

All technical data, recommendations, and services are rendered by the Seller gratis. They are based on technical data

that the Seller believes to be reliable and are intended for use by persons having skill and knowledge at their discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use by the Buyer whether as recommended herein or otherwise. Such recommendations, technical advice, or services are not to be taken as a license to operate or intended to suggest infringement of any existing patent. **MADEWELL PRODUCTS CORPORATION MAKES NO GUARANTEE OR WARRANTIES EXCEPT AS OTHERWISE PROVIDED IN WRITING AND DISCLAIMS ANY AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

Compressive Strength ASTM C-109	24 hours	3,500 psi
	7 days	4,900 psi
	28 days	5,500 psi
Tensile Strength ASTM C-190	7 days	290 psi
	28 days	575 psi
Shrinkage ASTM C-490	28 days @ 90% Rh	0.04%