

# CARMELO

## CARMELO HYDRO PLUG (HYDRAULIC CEMENT)

(Cemento hidráulico de secado rápido)

Cementitious Fast Setting Compound for Damp-proofing and Anchoring



**Product Description:** CARMELO HYDRO PLUG, is a high performance and repair product specially formulated to provide a ready to use ultra-rapid setting and durable plugging mortar, for active water leaks in concrete and masonry. The products can also be used as an anchoring and damp-proofing system. It is modified with high-quality additives for a superior bonding strength, without pigments to prevent or reduce corrosion. The material expands as it cures to form a watertight seal with similar characteristics to concrete.

**Advantages:** Our high-strength compound requires only the addition of water at the jobsite and repairs the area in 15 minutes. It permanently joins masonry units and concrete and helps prevent the propagation of existing cracks. This product does not contain or release Volatile Organic Compounds (VOCs), which are hazardous to the user's health and potentially irritate their eyes and throat.

**Industry Standards and Approvals:** The product meets and exceeds the physical property requirements of ASTM C 109, C 266, and ASTM C-387 (Standard Specifications for Packaged, Dry, Combined Materials for Mortar and Concrete).

**Sizes:** Carmelo Hydro Plug comes in a convenient quart, 10 lbs. gallon and 50 lbs. plastic bucket for easy handling and mixing.

**Precautions:** Do not allow the material to be installed on a frozen surface. Be mindful that hot temperatures will reduce the setting time. Since this is a product designed to set quickly, only mix the amount that will be used within 5 minutes.

### Usage and Application:

**Uses:** Carmelo Hydro Plug is designed to be used for repairing cracks or gaps over 1 inch (25 mm) deep on walls or floor. It can be used in basements, elevator pits, conduits, sea walls, tunnels, storm drains, foundations, docks, and piers.

**Surface Preparation:** Cut the sides of the hole or gap to be repaired, to provide adequate confinement for the patch. Remove all loose material from the area to be filled. Make sure the area is free of dust, mold, wax, soap, seaweed, or paint and rinse thoroughly with clean water.

### Mixing Ratio:

- 1 cup (236 mL) of water for the full quart
- 0.22-Gal (0.84 L) of water for the 10 lbs. (4.53 kg) gallon
- 1.11-Gal (4.20 L) of water for each 50 lbs. (22.68 kg) bucket (pail)

### Mixing Instructions:

- 1 Mix only with clean water. First add water into a clean container and then gradually add the powder according to the ratios provided above.
- 2 Mix with a mechanical agitator for 3-4 minutes or until it achieves a smooth consistency without any lumps.
- 3 Mix only the necessary material to apply to the area to be repaired.

### Installation / Curing:

- 1 Test the material to make sure it is slightly warm to the touch.
- 2 Always start from the top part of the gap and work your way down, applying the material while maintaining pressure on the patch until the leak stops.

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- 3 No curing compounds are required for this product.
- 4 The estimated final setting time is between 5 - 15 minutes.
- 5 The effectiveness of the curing process does depend on the weather and working conditions. Do not apply this product when the temperature is forecasted to be above 100°F or below 40°F.

**Storage:** Store in a dry place with moderate temperature, making sure that it's protected against water or other external agents.

## Protection of Work Area:

- Keep the mortar protected from extreme weather exposure for the first 20 minute.

**Warranty:** Ecológica Carmelo warrants this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the purpose for which it is intended.

**Health & Safety Precautions:** This product contains Portland cement. Always use safety goggles and rubber gloves when using this product, since contact with freshly mixed cement can cause severe burns. Avoid direct contact with skin and eyes. If this product does come in contact with the eyes, immediately flush with water for at least 15 minutes and consult a physician. For skin exposure, wash promptly with plenty of soap and water. If needed, consult a physician. Also, prolonged exposure to dust could irritate or negatively impact eyes, skin or lungs. Eliminate exposure to dust by using the correct protective gear such as masks, goggles, and gloves.

## Technical Data:

### Yield or Coverage:

- A 50 lbs. pail will yield approximately 0.45 ft<sup>3</sup> of mixed material.
- A 10 lbs. pail will yield approximately 0.09 ft<sup>3</sup> of mixed material.
- A quart (2.5lbs) will yield approximately 0.02 ft<sup>3</sup> of mixed material.

### Product Details

Product Code:	Physical State:	Size + Packaging:	Colors:
MORHYDROP-P (pail-bucket) MORHYDROP-G (gallon) MORHYDP-QRT (quart)	Powder	50 lbs pail 10 lbs gallon 1 quart	Gray or Beige

### Compressive Strength ASTM C-109M at 28 days:

4000 psi (27.6 MPa)

### Bucket Life at 71°F / 20°C

45 minutes

### Density

137 lbs/ft<sup>3</sup>

### Shelf Life + Application Properties

Shelf Life	1 year in the original bag, in a dry covered place.
Initial Setting Time at 72°F / 22°C	4-5 minutes
Final Setting Time at 72°F / 22°C	6 minutes
ASTM C-109	1800 PSI @ 1 hr & >5000 PSI @ 24 h
ASTM C-191	Set in under 6 minutes

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## ECOLÓGICA CARMELO

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