

# CARMELO

## CORROSION INHIBITOR REPAIR MORTAR

(Mezcla de reparación / Inhibidor de corrosión)

Repair Mortar Blended to Extend the Lifetime of Concrete Structures



**Product Description:** Carmelo's CORROSION INHIBITOR REPAIR MORTAR is a blend of cement, especially graded masonry sand and admixtures combined to give a product a consistent quality, placing, and finishing characteristics. This product has special corrosion inhibition technology that, when applied to an existing concrete surface, extends the lifetime of any reinforced concrete structure, and helps minimize future deterioration of the steel.

**Advantages:** The product can be used for all pre-stressed, precast, post tensioned or marine concrete. Our mortar protects against the harmful effects of corrosion even in the densest concrete by reducing the chloride ingress and protecting both anodic and cathodic areas. Its unique formula makes it non-hazardous, non-toxic, and non-flammable.

**Industry Standards and Approvals:** The product meets and exceeds the physical property requirements of ASTM C-270 for Type S Mortars (Mortar for Unit Masonry) ASTM C-387 (Standard Specifications for Packaged, Dry, Combined Materials for Mortar and Concrete).

### Usage and Application:

This mortar is useful for structures that are regularly exposed to corrosive environments, deicing salts, and weathering, like: steel-reinforced concrete, bridges, highways, building facades and balconies. It is also useful to fortify steel-reinforced concrete that is in or near marine environments like: parking garages, piers, concrete docks, buildings, and civil engineering structures.

**Surface Preparation:** Surfaces to be covered should be sound, clean, dry, and free of dirt, debris, oil, wax, grease, dust or any other external contaminant that may prevent a strong bond. Paint surface layers must be removed, cleaned of waxes, dirt or any contaminants.

### Mixing Ratio:

- ➔ 0.9 Gal (3.5 L) of water per 50 lbs. (22.68 kg) bag or pail.
- ➔ 0.18 Gal (0.68 L) of water per 10 lbs (4.5 kg) gallon.

### Mixing Instructions:

- ➊ Mixing tools and containers must be clean before mixing. For larger projects, use a mortar mixer.
- ➋ Add the required water amount to the container.
- ➌ Empty the entire mix into a container.
- ➍ Mix thoroughly until a lump-free consistency is reached.
- ➎ If the mix is too stiff, add more water until the desired consistency is obtained. Avoid a "soupy" mix, since too much water will weaken the mortar.
- ➏ If temperatures are expected to rise above 100°F (37.8°C), mix only enough mortar to be placed within one hour.

### Installation / Curing:

- ➊ Apply a coat of mortar onto the substrate no less than 1/4" (6 mm) thick.
- ➋ If working in hot weather, pre-dampened the substrate before applying the mortar.
- ➌ Curing mortar is only required if conditions are hot, dry or windy.
- ➍ In such cases, spray a mist of water on the surface to prevent premature drying and improve the mortar's strength.

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

## Protection of Work Area:

- ⊖ Keep the mortar protected from extreme weather exposure for the first 48 hours.

**Environmental Considerations:** The product is environmentally friendly due to it containing regional materials from Puerto Rico.

**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.

## Technical Data:

Yield or Coverage:
Per Thickness for a 50 lbs. bag / pail: 1/4" (6,3 mm) 22 sq. ft (2,0 m <sup>2</sup> )
Per Thickness for a 10 lbs. gal: .084 lb/ft <sup>3</sup>

Product Details			
Product Code:	Physical State:	Size + Packaging:	Colors:
MORCRFIN-P MORCRFIN-G MORCRFIN	Powder	50 lbs pail 10 lbs gallon 50 lbs bag	Concrete Gray

Compressive Strength ASTM C109 at 28 days:	Bucket Life	Density
1800 psi (12.41 Mpa)	1 hour	133 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	2 hours
Final Setting Time at 72°F / 22°C	4 hours
ASTM C1583 (Pull-off method)	Over 100 psi

**CARMELO**

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