

Impermeable Mortar Finish



Product Description

Carmelo Impermeable Mortar Finish is a blend of cement, specially graded masonry sand and admixtures combined in carefully controlled proportions to give a product of consistent quality with good mixing, placing and finishing characteristics. The product is a high quality mortar particularly design for Waterproofing of existing structures, is a ready to use mortar (just add water), based on special cements and admixtures to provide a water and damp- proof finish that combines ease of mixing with excellent performance. It is also an Environmentally Friendly Product containing recycled materials and local regional materials.

Uses

Carmelo Impermeable Mortar Finish is a versatile product that can be used for waterproofing of foundations, underground structures, basement walls, and masonries in general, elevator shafts, and ground facing walls.

Data

The product meets and exceeds the physical property requirements of **ASTM C387** (Standard Specifications for Packaged, Dry, Combined Materials for Mortar and Concrete). The mortar reaches a compressive strength in excess of 1500 psi (10.34 MPa) at 28 days using **ASTM C 109**.

- Higher compressive strength at 28 days.
- Lower water permeability.
- Lower water absorption.
- Visual water repellency and surface beading.
- Higher pull-off bond strength.

Surface Preparation

Surfaces to be covered with Carmelo impermeable Mortar finish should be sound, clean, dry, and free of dirt, debris, oil, wax, grease, dust or any other external contaminant that would prevent a good bond. Paint surface layers must be removed, and cleaned of waxes, dirt or any contaminants.

Mixing Instructions

Verify that mixing tools and containers are clean before mixing. To mix a 50 lbs bag of Carmelo impermeable Mortar finish, add about 3.5L (0.9gal) of potable water into a container, empty the 50 pound bag in the container. Mix thoroughly; 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. A workable mortar has a "pasty" texture without excessive bleeding. If temperatures are expected to rise above 100 °F (37.8 °C), mix only enough mortar that can be placed in one hour. A mortar mixer is recommended for larger projects or a mortar spraying machine. A workable mortar has a "pasty" texture and should slide off a trowel held at a 45 degree angle.

Application

Apply a layer of mortar onto the base of about ½"(12 mm) thick. Can be mixed by hand or sprayed. The surface must be pre-moistened before placing the mix. If it is a CMU block wall, push the mortar layer sideways with twisting motion.

Curing

Curing of mortar is only required if conditions are hot, dry or windy. In such cases, spray a mist of water to the surface to prevent premature drying and improve the strength of the mortar. Try to keep the mortar protected from direct sunlight for the first 48 hours.

Storage

Store in a moderate temperature dry place protected against water or other external agents.

Precautions

This product contains Portland cement. Contact with freshly mixed product can cause severe irritation. Use of safety goggles and rubber gloves is recommended. Avoid direct contact with skin and eyes. If this product contacts 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.

Limited Warranty

Ecológica Carmelo warrant 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. In the event of a claim under this warranty, notice must be given to Ecológica Carmelo in writing. This limited warranty is issued and accepted in lieu of all other expressed warranties and expressly excludes liability for consequential damages.

The data outlined below is representative of typical values achievable under controlled laboratory conditions. Results obtained in the field may vary from those stated below.

Technical Data

Physical State	Powder
Color	Gray
Shelf Life	1 year in original bag, in a dry covered place.
Mixing Ratio	3.5 Liters (.9 Gal.) of water/50 pound bag.
Compressive Strength	1,500 psi (10.34 MPa) at 28 days
Density	132 lbs/ft ³
Yield	0.44 ft ³ / Bag
ASTM 1583 (Pull Off Test)	200 psi