

Hydro Plug Cement

(HYDRAULIC CEMENT)



Cementitious Fast Setting Compound, Damp-proofing and Anchoring

Product Description

Carmelo Hydro Plug is a high performance and environmentally friendly repair product specially formulated to provide a ready to use ultra-rapid setting durable plugging mortar for active water leaks in concrete and masonry. Also used as anchoring and damp-proofing system. It's modified with high quality additives for a superior bonding strength, with or without pigment to prevent corrosion. The material expands as it cures to form a watertight seal with similar characteristics to concrete. Specifically designed to adhere, requiring only the addition of water at the jobsite.

Product Use

Carmelo Hydro Plug is designed to be used for repairing cracks or gaps over 1 inch (25 mm) deep on walls or floor. Other applicable uses are in basements, elevator pits, conduits, sea walls, tunnels, storm drain, foundation, docks and piers.

Features And Benefits

- Mix only with clean water.
- Repaired area is ready in 15 minutes.
- Permanently joins the masonry units and concrete.
- Does not contain or releases of Volatile Organic Compounds (VOCs).
- High strength.
- Prevents the propagation of existing cracks through the surface.
- Reduce the probability of corrosion.

Sizes

Carmelo Hydro Plug comes in a convenient 10 lbs and 50 lbs plastic bucket for easy handling and mixing.

Yield

Approximately yield for a 50 lb. (22.8kg) bucket is 0.45 ft³ and for 10 lbs (4.53 kg) is 0.09 ft³.

Precautions

- Do not allow material to be installed on frozen surface.
- Hot temperatures will reduce the setting time.
- Mix only the amount that can be used in 5 minutes.

Mixing

The mixture is obtained by adding water into a clean container and then gradually adding the powder. Add approximately 1.11 gallons (4.20 liter) of water for each 50 lbs. bucket of product or 0.22 gallons (0.84 liter) for the 10 lbs. bucket. Mix continuously using a mechanical agitator 3-4 minutes or until a homogeneous lump free mortar is obtained.

Installation Surface Preparation

Cut the sides of the hole to be repaired, to provide adequate confinement of 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. Rinse thoroughly with clean water.

Application

Follow these procedures when applying Carmelo Hydro Plug:

- Mix sufficient material that can be applied at the repair site.
- Hold the material in the hand until slight warmth is felt.
- Always starting from the top and working down, apply the material while maintaining pressure on the patch until the leak is interrupted.

Curing

- No curing compounds are required.
- Final setting time 5 – 15 minutes.
- The effectiveness of the curing process depends on the weather and working conditions. Do not apply when the temperature is forecasted to be above 100° F or below 40° F.

Technical Data

Physical State	Powder
Color	Gray, Beige
Mixing Ratio	1.11 Gal (4.2 l) of water for 50 lbs. bucket 0.22 Gal (0.84 l) of water for 10 lbs. bucket
Bucket Life @ 70°F (21°C)	Less than 5 min.
ASTM C-109	1800 PSI @ 1 hr & >5000 PSI @ 24 hr
ASTM C-191	Set in under 6 minutes
Wet Density	136 pcf

CAUTION: May cause eye, skin or lung injury with prolonged exposure to dust. Eliminate exposure to dust. Contains Portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water and consult a physician promptly. Freshly mixed flush immediately and repeatedly with water, and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.

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