COMMERCIAL CEMENT PLASTER BASE™- Concentrate DS818

Fiberglass Reinforced Portland Cement Plaster Base Supplied in Concentrate Form

Description

Commercial Cement Plaster (CCP) Base - Concentrate is a proprietary blend of alkali resistant fibers and cementitious admixtures. After mixing at the jobsite with clean, graded plaster sand and water, it may be used in any Dryvit CCP system.

Uses

CCP Base may be applied directly to concrete and CMU substrates or to approved, paper backed, expanded metal, welded, or woven wire lath installed over a code approved, water-resistive barrier. CCP Base may be applied in one or two passes to achieve a thickness of 1/2 in (12.7 mm) – 5/8 in (15.9 mm) or in two passes to achieve a total thickness of up to 7/8 in (22.2 mm).

Coverage

A 80 lb (36.3 kg) bag of CCP Base - Concentrate mixed with 91 kg (200 lbs) of graded plaster sand will cover approximately 38 ft^2 (3.5 m^2) at 3/4 in (19 mm) total thickness.

Coverage will vary depending on the plaster sand added, mixing techniques and application procedures used. A test area is strongly recommended to verify coverage for any specific project.

Properties

Working Time – Approximately 1 hour, depending upon ambient conditions.

Testing

Complies with ASTM C 1328 and IBC requirements for Portland cement plaster.

Application Procedure

Job Conditions – Air and surface temperature for application of CCP Base must be 40 °F (4 °C) or higher and must remain so for a minimum of 24 hours.

Temporary Protection – Must be provided at all times to protect CCP Base from damaging effects of precipitation, dirt and job-site contamination.

Mixing – Mortar mixer and tools must be free of rust. Each 80 lb (36.3 kg) bag of CCP Base - Concentrate requires approximately 4 gal (15.1 L) of cool, clean water and 200 lbs (91 kg) of clean graded sand conforming to ASTM C 897. Put 3 gal (11.4 L) of water into the mixer, and with mixer running, add CCP Base and then sand. Add remaining water as needed to adjust workability. Final consistency must be uniform, free of lumps, and fibers must be evenly dispersed.

Application – CCP Base may be applied by hand or plaster pump.

Lath shall be installed in accordance with ASTM C 1063 and local building codes. CCP Base is applied in accordance with ASTM C 926, local and national code requirements, and as follows:

Apply the scratch coat to a nominal thickness of 3/8 in (9.5 mm) so that the lath is completely embedded and provides approximately 1/8 in (3.2 mm) cover to allow for scratching. Allow the scratch coat to become firm and score the entire surface horizontally to provide proper keying of the brown coat. The brown coat is applied once the scratch coat is sufficiently rigid to accept the application without being disturbed. The brown coat is applied with sufficient pressure and material to ensure tight contact with the scratch coat and bring to the specified thickness. Using a rod, darby or other straightedge, the surface of the brown coat is brought to a true plane flush with plaster grounds. Follow local code requirements regarding minimum thickness requirements over different substrates. A wood or hard rubber float is used to promote densification and to provide enough “tooth” for proper adhesion of the coating or finish. Final thickness shall comply with local code requirements and project specifications.

Curing Time – CCP Base requires adequate moisture to allow continuous hydration of the cement. Moist curing for a minimum of 48 hours must be provided. Environmental conditions such as low humidity or windy conditions may dictate additional curing. CCP Base must be allowed to cure for a minimum of 7 days prior to coating with a Dryvit primer and acrylic coating or finish.

Coating/Finish – Ensure surface is clean, dry and free of contaminants or efflorescence prior to application of approved Dryvit coatings or finishes.

Clean-Up – Clean tools with water while product is still wet.

Storage

Store materials on pallets, wrapped or covered, protected from the weather and direct sunlight until just before mixing. Minimum storage temperature for wet goods shall be a minimum of 40 °F (4 °C) and a maximum of 100 °F (38°C) in tightly sealed containers protected from weather and out of direct sunlight.

Cautions and Limitations

- Avoid applying CCP Base in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Use only clean, potable water and clean, graded plaster sand for mixing. Do not over water.

Technical and Field Services

Available on request.

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For more information on Dryvit Systems or Continuous Insulation, visit these links.