

# CLASSIC CEMENT PLASTER BASE™

DS475

## A Fiberglass Reinforced Portland Cement Plaster Base

### Description

Classic Cement Plaster base is a fiberglass reinforced cement plaster utilizing alkali resistant fibers and proprietary cementitious admixtures used in Dryvit's Classic Cement Plaster Systems.

### Uses

Classic Cement Plaster Base is applied to expanded metal lath, welded wire lath or woven wire lath, installed over a secondary weather barrier over properly sheathed wood or metal framed walls, CMU or concrete substrates to provide an exterior wall covering for use over combustible or non-combustible construction types.

### Coverage

A 36.3 kg (80 lb) bag of Classic Cement Plaster Base will yield 23 L (0.83 cu ft) of material. Coverage is 14 ft<sup>2</sup> per bag at 19 mm (3/4 in) thickness. Coverage will vary depending on mixing techniques and application procedures.

### Properties

**Working Time** - Approximately 1 hour, depending upon ambient conditions.

**Curing Time** - Classic Cement Plaster Base requires adequate moisture to allow continuous hydration of the cement. Moist curing for a minimum of 4 days must be provided. Classic Cement Plaster Base must be allowed to cure for a minimum of 7 days prior to coating with a primer and an acrylic finish coat.

### Compressive Strength

(ASTM C109) - 13.9 Mpa (2020 psi) at 28 days.

### Flexural Strength (ASTM C348)

- 3.0 MPa (570 psi) at 28 days.

### Tensile Strength (ASTM C190) -

1.2 MPa (180 psi) at 28 days.

### Freeze/Thaw Resistance

(ICBO Procedure) - No cracking, checking or delamination.

### Water Vapor Permeability

(ASTM E514) - 415 ng/(Pa. s. m<sup>2</sup>) (7.2 perms)

### Transverse Load Strength

(ASTM E72)

- Wood Studs - 468.7 kg/m<sup>2</sup> (96 psf)
- Metal Studs - 673.8 kg/m<sup>2</sup> (138 psf)

### Fire Resistive Wall Assembly

(ASTM E119) - Fire rating

### Application Procedure

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

**Temporary Protection** - Must be provided at all times to protect Classic Cement Plaster Base and finish applications from damaging effects of precipitation, dirt and job-site contamination.

### Substrates/Preparation

**Metal Lath/Netting** - The lath used shall be either 1.9 kg/m<sup>2</sup> (3.4 lbs/yd<sup>2</sup>) galvanized self-furring Diamond Mesh, minimum 16 gauge galvanized self-furring welded wire lath, minimum 1 1/2 x 17 galvanized woven wire lath or 10 mm (3/8 in) galvanized rib lath. The specific type is to be selected by the designer based on project requirements. Lathing fabric shall be applied over two (2) layers of Grade D-30 or 60 minute paper or other code approved secondary weather barriers. Lath installation shall conform with ASTM C1063 and local code requirements.

**Mixing** - A 36.3 kg (80 lb) bag of Classic Cement Plaster Base requires the addition of approximately 6.6 L (1 3/4 gal.) of cool, clean potable water and

470 ml (1 pint) of AC-100™. Blend together the Dryvit AC-100 with 4.7 L (1.25 gal) of water in the mixer and, with the mixer engaged, slowly add the Classic Cement Plaster Base until mixed to a uniform consistency. Add the remaining water as necessary to adjust to a workable consistency. Mix in a mortar mixer for between 3 and 5 minutes.

**Application** - Classic Cement Plaster Base must be applied in accordance with local and national code requirements, ASTM C926 and as follows:

**Metal Lath Base** - Apply the scratch coat to a nominal thickness of 10 mm (3/8 in) so that the lath is completely embedded and provides approximately 3 mm (1/8 in) cover to allow for scratching. Allow the scratch coat to become firm and score the entire surface. Vertical surfaces shall be scored horizontally to provide proper keying of the second coat. The second coat is applied once the first coat is sufficiently rigid to accept the application without being disturbed. The second coat is applied with sufficient pressure and material to ensure tight contact with the first coat and bring the total nominal thickness to approximately 19 mm (3/4 in). Using a rod, darby or other straightedge, the surface of the second coat is brought to a true plane flush with plaster grounds. The surface is floated to promote densification and to provide a surface receptive to bonding of the finish. A wood or hard rubber float is recommended to ensure a surface with adequate "tooth" for the finish coat application.

### Solid Base (Concrete or

**Masonry)** - If needed, apply a coat of AC-100 to the surface using a brush, roller or spray application. If not needed, evenly dampen the surface with clean

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DS475

water prior to application of Classic Cement Plaster Base. Dampening is not recommended where AC-100 will be used. Apply the first coat of base to a nominal thickness of 6 mm (1/4 in) and with sufficient pressure to ensure intimate contact and complete coverage. The entire surface shall be scored horizontally as soon as the first coat achieves sufficient firmness. The second coat is applied in the same manner as the first and brought to a true and planer surface using a rod or straightedge to achieve a total nominal thickness of 13 mm (1/2 in). The surface is floated to promote densification and to provide a surface receptive to bonding of the finish. A wood or hard rubber float is recommended to ensure a surface with adequate "tooth" for the finish coat application. Application of Classic Cement Plaster Base to solid substrates must include determination of substrate suitability as described in ASTM C926.

**Curing** - Moist cure Classic Cement Plaster Base for at least 4 days.

**Finish** - Ensure surface is clean, dry and free of efflorescence prior to application of finish coatings.

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

### Storage

Store bags and pails on pallets, wrapped or covered, protected from the weather and direct sunlight until just before mixing. Minimum storage temperature for wet goods shall be 4 °C (40 °F).

### Cautions and Limitations

Use only clean, potable water for mixing. Do not over water.

### Technical and Field Services

Available on reasonable request.

### Warranty

Classic Cement Plaster Base is warranted as part of the Dryvit Classic Cement Plaster System against defective material. Contact Dryvit Systems, Inc. for complete details.

Dryvit Systems, Inc.  
P.O. Box 1014  
One Energy Way  
West Warwick, RI 02893  
800-556-7752  
www.dryvit.com

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