

Installation Instructions for StoneCoat Exterior Wall Covering

1 StoneCoat® Exterior Wall Covering

1.1 StoneCoat® application general requirements are as shown in Table 1.

Table 1. General Requirements for Application of StoneCoat®

Type	Requirements
Application	StoneCoat® must be applied in accordance with StoneCoat® International Inc. printed instructions. These instructions require hand-troweling, machine spraying or pumping in two or three coats to a minimum thickness of ½" (12.7mm).
Mixing Ratio	StoneCoat® must be mixed with water at a ratio of 1.25-1.35 gallons (4.7L-5.1L) of water to each 50lb (22.7 kg) bag. Resulting with a ratio of 0.025-0.027 gallons (0.094-0.102L) of water per every 1 lb of StoneCoat® used.
Ambient Temperature	StoneCoat® must be applied at ambient air temperatures between 40° F and 100° F (4° C and 38° C)
Metal Lath	2.5lb/yd ² metal lath that complies with ASTM C847. The lath must be furred for a minimum of 0.25" (6.4mm) from the solid substrate after installation. Exception: Metal Lath is not required when used over concrete or masonry walls.

1.2 StoneCoat® Application specific requirements for application over various substrates are as shown in Table 8.

Table 2. Specific Requirements for Application of StoneCoat® to Various Surfaces

Surface	Requirements for Application
Wood Framing	Members must have a minimum specific gravity of 0.42 sheathed with a minimum of 7/16" (11.1 mm) thick Exposure 1 Oriented Strand Board (OSB) complying with US DOC PS-2. The framing and sheathing shall be installed in accordance with required codes. StoneCoat® must be applied over metal lath that complies with the requirements seen in Table 1. The lath must be attached to framing members using No. 8 by 1.25" long lath screws spaced 1' on center. StoneCoat® must then be applied in accordance with Table 1.
Metal Framing	Members must have a minimum base-metal thickness of 33 mils and 33-ksi yield strength. Members must also be sheathed with minimum of 0.5" (12.7mm) thick glass-mat gypsum sheathing complying with ASTM C1177. The framing and sheathing shall be installed in accordance with required codes. StoneCoat® must be applied over metal lath that complies with the requirements seen in Table 1. The lath must be attached to framing members using No. 8 by 1.25" long lath screws spaced 1' on center. StoneCoat® must then be applied in accordance with Table 1.
Concrete or Masonry Wall	StoneCoat® may be directly applied to concrete and masonry walls. Metal lath is not required during installation.
Water-resistant treated core Gypsum Sheathing	Must comply with ASTM 1396.

Surface	Requirements for Application
Glass-mat gypsum Sheathing	Must comply with ASTM C1177.
Gypsum wallboard Sheathing	Must comply with ASTM C1396.
Wood Structural Panels (WSP) Sheathing	Minimum of $\frac{7}{16}$ inch thick (11.1 mm) Exposure 1 or WSPs that have a minimum specific gravity of 0.42 and comply with US DOC PS-2.

1.3 Requirements for the use of a water resistance barrier in conjunction with StoneCoat® are as shown in Table 9.

Table 3. Applying a Water Resistive Barrier (WRB)

Surface	Requirements for Application
General	At least one layer of WRB material must be attached to the sheathing with flashing. Flashing must comply with the applicable code. Application of the WRB must comply with applicable code.
Non-wood-based Sheathing	Must be at minimum one layer of asphalt felt complying with ASTM D226, Type 1 or equivalent.
Wood-Based Sheathing (Dry Climate)	Minimum of two layers of 10-minute Grade D paper or have a water-resistance equal to or greater than two layers of a water resistive barrier complying with ASTM E2556, Type 1. The individual layers shall be installed independently such that each layer provides a separate continuous plane and any flashing intended to drain to the WRB is directed between the layers.
Wood-Based Sheathing (Moist and Marine Climates)	Minimum of two layers of 10-minute Grade D paper or have a water-resistance equal to or greater than two layers of a water resistive barrier complying with ASTM E2556, Type 1. The individual layers shall be installed independently such that each layer provides a separate continuous plane and any flashing intended to drain to the WRB is directed between the layers. A space or drainage material at least $\frac{3}{16}$ " thick shall be installed on the exterior or the WRB complying with the IBC.