

ICC-ES Evaluation Report

ESR-2027

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DIVISION: 04 00 00—MASONRY
Section: 04 05 13.23—Surface Bonding Masonry Mortaring

DIVISION: 09 00 00—FINISHES
Section: 09 24 00—Portland Cement Plastering

REPORT HOLDER:

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EVALUATION SUBJECT:

EASY-SPRED®

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 *International Building Code*® (2009 IBC)
- 2009 *International Residential Code*® (2009 IRC)
- 2006 *International Building Code*® (2006 IBC)
- 2006 *International Residential Code*® (2006 IRC)
- 2003 *International Building Code*® (2003 IBC)
- 2003 *International Residential Code*® (2003 IRC)

Properties evaluated:

- Physical
- Structural
- Durability

2.0 USES

Easy-Spred® plasticizer is a Class CLR admixture, intended to replace lime in masonry mortar prepared in accordance with Section 2103.8 of the 2009 IBC and 2006 IBC, Section 2103.7 of the 2003 IBC, Section R607.1 of the 2009 IRC and 2006 IRC or 2003 IRC.

3.0 DESCRIPTION

Easy-Spred® is a pozzolanic formulation consisting of a combination of hydroxy aluminum silicates and diatomite. The material is packaged in 7-pound (3.1 kg) bags, and has a bulk density of 54 lbs/ft³ (865 kg/m³) and a specific gravity of 2.47.

4.0 DESIGN AND INSTALLATION

4.1 General:

Materials must be proportioned as specified and mixed in a mechanical batch mixer with an amount of clean potable water sufficient to produce a workable consistency. Table 1 presents mix designs for various mortars. A maximum of two bags [0.26 ft³ (0.0074 m³)] of Easy-Spred must be used per cubic foot of cement (0.028 m³). The product has indefinite shelf life when stored in its original container in dry form. Approximately two-thirds of the total water and Easy-Spred® must be placed in the mixer and mixed for 1 to 1½ minutes. Next, one-fourth to one-third of the total sand and all cement must be added and mixed for two minutes. Then, the remaining water and sand must be added and mixed until desired workability is achieved, usually in 6 to 8 minutes. Mortar is laid in a uniform bed without furrows and with bed joints completely full. Mortar that has commenced setting cannot be retempered or used. Under cold weather conditions, masonry materials must be at a temperature above freezing when placed, and the materials must be protected from freezing for 48 hours thereafter. Cold weather construction must be in accordance with Section 2104.3 of the 2009 IBC, 2006 IBC and 2003 IBC. Masonry cannot be placed on foundations or masonry units with frost or that are frozen. Hot weather construction must comply with Section 2104.4 of the 2009, 2006 and 2003 IBC.

4.2 Mortars in Areas of Seismic Risk:

4.2.1 IBC: Mortars prepared according to this report are limited by Section 2106 of the 2009 IBC, 2006 IBC and 2003 IBC to the following Seismic Design Categories as part of lateral force-resisting systems:

- Categories A, B, and C: Types M, S and N
- Categories D, E, and F: Types M and S

4.2.2 IRC: Mortars prepared according to this report are limited by Sections R606.12 and R607.1 of the 2009 IRC and 2006 IRC, and Sections R606.11 and R607.1 of the 2003 IRC, to the following Seismic Design Categories as part of lateral force-resisting systems:

- Categories A, B, and C: Types M, S and N
- Categories D1 and D2: Types M and S

5.0 CONDITIONS OF USE

The Easy-Spred® described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following

condition: Easy-Spred[®] may be used as an alternative to lime for Types M, S, and N masonry mortars as required in the 2009 IBC, 2006 IBC, the 2006 IRC, the 2003 IBC, and the 2003 IRC; provided amounts are as set forth in this report.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mortar with Admixtures (AC87), dated June 2006.

6.2 A quality control manual.

7.0 IDENTIFICATION

This product is identified by the name Easy-Spred[®], the trademark "The Miracle in Mortar" printed on the bag containers, the manufacturing plant location, and the evaluation report number (ESR-2027).

TABLE 1—MIX RATIO TABLE FOR PORTLAND CEMENT—EASY SPRED[®] MORTARS

MORTAR TYPE	PORTLAND CEMENT ¹ (94-POUND BAG)	EASY-SPRED [®] (7-POUND BAG)	MASONRY SAND ^{2,3} (ft ³)
N	1	1	6
S	2	1	9
M	2	1/2 to 1	6

For **SI**: 1 pound = 0.454 kg, 1 lb./ft.³ = 0.0624 kg/m³, 1 ft³ = 0.028 m³.

¹Portland cement must comply with ASTM C 150.

²Masonry sand must comply with ASTM C 144.

³Sand unit weight is 80 lb/ft³ (loose).