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ICC-ES Evaluation Report

ESR-2027

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Reissued 01/2018
This report is subject to renewal 01/2020.

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:

PENINSULA PRODUCTS, INC.

**3014 WEST PALMIRA AVENUE, #200
TAMPA, FLORIDA 33629**

EVALUATION SUBJECT:

EASY-SPRED®



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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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:

PENINSULA PRODUCTS, INC.
3014 WEST PALMIRA AVENUE, #200
TAMPA, FLORIDA 33629
(866) 792-8623
www.easy-spred.com

EVALUATION SUBJECT:

EASY-SPRED®

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

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 2103.2 of the 2018 and 2015 IBC, 2103.9 of the 2012 IBC or Section 2103.8 of the 2009 IBC, and Section R606.2.8 of the 2018 IRC, Section R606.2.7 of the 2015 IRC, or R607.1 of the 2012 and 2009 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 of the IBC. Masonry cannot be placed on foundations or masonry units with frost or that are frozen. Hot weather construction must comply with Section 2104 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 IBC when used as part of lateral force-resisting systems.

4.2.2 IRC: Mortars prepared according to this report are limited by Section R606.2.8 of the 2018 IRC, Section R606.2.7 of the 2015 IRC, Sections R606.12 and R607.1 of the 2012 and 2009 IRC, when used as part of lateral force-resisting systems.

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 conditions:

5.1 Easy-Spred® may be used as an alternative to lime for Types M, S, and N masonry mortars as required in the 2018, 2015, 2012, and 2009 IBC; and the 2018, 2015, 2012 and 2009 IRC, provided amounts are as set forth in this report.

- 5.2 The use of mortar for masonry serving as the lateral-force-resisting system for seismic design shall comply with Section 4.2 of this report.
- 5.3 Special inspection for the IBC shall conform to IBC Section 1704.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mortar Containing Admixtures (AC87), dated August 2011 (editorially revised March 2018).

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 C150.

²Masonry sand must comply with ASTM C144.

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