ICC-ES Evaluation Report

ESR-2027

Reissued January 2024

This report also contains:

- CBC Supplement

Subject to renewal January 2025

DIVISION: 04 00 00—MASONRY **Section: 04 05 13.23—Surface Bonding Masonry Mortaring** **DIVISION: 09 00 00—FINISHES** **Section: Section: 09 24 00—Portland Cement Plastering**	**REPORT HOLDER: PENINSULA PRODUCTS, INC.**	**EVALUATION SUBJECT: EASY-SPRED®**	

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 *International Building Code®* (IBC)
- 2021, 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 2021, 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 2021 and 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/ft^3 (865 kg/m^3) 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 ft^3 (0.0074 m^3)] of Easy-Spred must be used per cubic foot of cement (0.028 m^3). 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 $1^1/_2$ 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 2021 and 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 2021, 2018, 2015, 2012, and 2009 IBC; and the 2021, 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

Data in accordance with the ICC-ES Acceptance Criteria for Mortar Containing Admixtures (AC87), dated August 2011 (editorially revised March 2022).

7.0 IDENTIFICATION

7.1 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).

7.2 The report holder's contact information is the following:

PENINSULA PRODUCTS, INC.
POST OFFICE BOX 26
SAINT PETERSBURG, FLORIDA 33731
(813) 832-4080
www.easy-spred.com

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/m^3, 1 ft^3 = 0.028 m^3.

[1]Portland cement must comply with ASTM C150.
[2]Masonry sand must comply with ASTM C144.
[3]Sand unit weight is 80 lb/ft^3 (loose).

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.

EVALUATION SUBJECT:

EASY-SPRED®

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Easy-Spred®, described in ICC-ES evaluation report ESR-2027, has also been evaluated for compliance with the code*(s)* noted below.

Applicable code edition*(s)*:

- 2019 *California Building Code* (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Easy-Spred®, described in Sections 2.0 through 7.0 of the evaluation report ESR-2027, complies with CBC Chapter 21, provided the design and installation are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 17 and 21, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Easy-Spred®, described in Sections 2.0 through 7.0 of the evaluation report ESR-2027, complies with CRC Chapter 6, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 6, as applicable.

This supplement expires concurrently with the evaluation report, reissued January 2024.