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ORCO Blended Products
27347 3rd Street
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RESEARCH REPORT: RR 25454
(CSI # 04060)

Attn: Luciano Lopez
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Expires: July 1, 2024
Issued Date: July 1, 2022
Code: 2017 LABC

GENERAL APPROVAL – Renewal - OBP Mortar, Mac Mortar pre-blended Type M and Type S Masonry Mortar and OBP and R-Crete Grout Aid.

DETAILS

The following ready-mixed mortars are approved for use in masonry construction.

- I. OBP Mortar - Type S
OBP Mortar - Type M
OBP Grout concrete - Mix 2000 with Pump Aid-Masonry Grout
- II. Mac Mortar - Type S
Mac Mortar - Type M
Mac Mortar - Type S - H.A.B.
- III. R-Crete - GA - 213R-Grout Aid

This approval is subject to the following conditions:

- 1. The Type M, Type S Mortar and Masonry Grout shall be proportioned in accordance with Table SC-1 and Table SC-7 of ACI 530- 08.

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RE: Type M, Type S Mortar and Masonry Grout.

2. The masonry mortars and masonry grouts shall be delivered in weatherproof bags. The bags shall be identified by a label indicating the manufacturer's name, product name, the mortar type or grout compressive strength at 7 days and 28 days, the net weight, and the minimum and maximum water required.
3. No admixtures shall be used with masonry mortar.
4. There shall be no intermixing of mortars of different deliveries, i.e., mixed in different batches.
5. The mortars shall not be applied at temperatures below 40 °F.
6. The mortar shall not be used for foundation or concrete flatwork.
7. No mortar with elapsed time of 90 minutes or more after initial mixing shall be used.
8. Tests and sampling shall be conducted as follows:
 - a. Samples shall be taken from every production batch.
 - b. Each sample shall be tested for conformance to Section 4.1 of ASTM C144 with regard to sand gradation.
 - c. Compressive strength tests shall be conducted monthly on a random basis. Specimens shall be cast in two-inch cube molds using recommended water amounts when mixing. 28-day compressive strength test results must exceed minimums set by Table 2 of ASTM C270.
 - d. All test data shall be documented according to batch numbers.
 - e. All of the above information shall be kept on file with the manufacturer and shall be available to the Department of Building and Safety upon request.

DISCUSSION

The report is in compliance with 2017 City of Los Angeles Building Code.

Condition 8f was removed because half stress design to avoid inspection is no longer in the code.

This approval is based on tests conducted in accordance with UBC Standard No. 21-15 and No. 21-19.

ORCO Blended Products

RE: Type M, Type S Mortar and Masonry Grout.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this approval have been met in the project in which it is to be used.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

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