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RESEARCH REPORT: RR 24968

Expires: November 1, 2020
Issued Date: January 1, 2019
Code: 2017 LABC

GENERAL APPROVAL – Renewal - Spec Mix Masonry Mortar Type S, Type S (LR), Spec Mix IWR Masonry Mortar Type S and Type M Masonry Mortars, 2000, 2000 (70-30), 3000 Spec Concrete Grouts, Fast Trak Grout, Pump Grade and Construction Grade Non-Shrink Grout, Grout Additive, Fine Grout with Grout Additive, Pre Mix Deck Mud, and Wall Mud Ceramic Tile Setting Mortars, Spec Mix Scratch & Brown/Base Coat Plaster, and Sakrete® High-Strength Concrete Mix.

DETAILS

1. SPEC MIX® Masonry Mortar-Type S is a dry, factory-blended mortar consisting of Type II Portland Cement, hydrated lime and sand, and may be used for Type S Mortar in masonry construction.
2. SPEC MIX® Masonry Mortar Type S (LR) has the same constituents as the Pre-Mix Masonry Mortar Type S, except that "Easy Spread" Plasticizer (LA RR# 24375) is used as a substitute for part of the lime in the Type S mix.
3. SPEC MIX® Masonry Mortar-Type M is a dry, factory-blended mortar consisting of Type II Portland Cement, hydrated lime, and sand, and may be used for Type M mortar in masonry construction.
4. Pre-Mix Spec Concrete-2000 and 2000 (70-30) is a dry, factory-blended concrete mix consisting of Type II Portland Cement, sand, 3/8" aggregate and may be used where 2000 psi grout for masonry construction or 2000 psi concrete mix is specified.

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5. Pre-Mix Spec Concrete-3000 is a dry, factory-blended concrete mix consisting of Type II Portland Cement, sand, 3/8" aggregate and may be used where 3000 psi grout for masonry construction or 3000 psi concrete mix is specified.
6. Pre-Mix Deck Mud is a dry, factory-blended dry pack mix consisting of Type II Portland Cement and sand, and may be used for a ceramic tile setting mortar.
7. Pre-Mix Wall Mud is a dry, factory-blended mix consisting of Type II Portland Cement, hydrated lime, and sand and may be used for a ceramic tile setting mortar.
8. SPEC MIX[®] Scratch & Brown/Base Coat Plaster is a dry factory-blended mix consisting of Type II Portland Cement, hydrated lime, and sand, and may be used for exterior plaster in accordance with Division 25 of the Code where a cement-lime plaster mix is required.
9. Pre-Mix pump grade non-shrink grout is a dry natural aggregate factory-blended, non-shrink grout designed to be placed or pumped at a high fluidity. It is approved for setting base plates, precast walls and similar uses. Pump grade grout shall be mixed at a ratio of 1d gallons of water per 50 lbs. of grout.
10. Pre-Mix construction grade non-shrink grout is a dry natural aggregate, factory-blended non-shrink grout designed to be placed in a plastic or moderately fluid consistency. It is approved for setting base plates, precast walls and similar uses. Construction grade grout shall be mixed at a ratio of 1-2/5 gallons of water per 50 lbs. of grout.
11. Pre-Mix Fast-Track grout is a dry, factory-blended, non-shrink grout consisting of modified hydraulic cement, natural aggregates and proprietary admixtures. It is approved for setting base plates, precast walls and similar uses. Fast-Trak grout shall be mixed with water at a ratio of 13 gal. per 50 lbs. grout.
12. Pre-Mix Grout Additive is a powder admixture for concrete grout used in high-lift grouting of concrete block and clay brick.
13. Pre-Mix Fine Grout with Pre-Mix Grout Additive is a dry, factory-blended grout consisting of Type II Portland Cement, sand and Pre-Mix Grout Additive at 1% of the cement content. It may be used where 2000 psi fine grout is specified.
14. Spec Mix IWR Type S Mortar is a pre-blended mortar mix consisting of Portland cement, hydrated lime, sand and water repellent admixture reportedly conforming to ASTM C150, C207 and C144, respectively, and proportioned per the manufacturer to meet ASTM C270 material component requirements. The product was mixed in accordance with ASTM C387 Section 14 (Mixing and Testing Mortar) and ASTM C1714 Section 9.1.2.

15. Spec Mix IWR Type M Mortar is a pre-blended mortar mix consisting of Portland cement, hydrated lime, and sand reportedly conforming to ASTM C150, C207 and C144, C1714, respectively, and proportioned per the manufacturer to meet ASTM C270 material component requirements. The product was mixed in accordance with ASTM C387 Section 14 (Mixing and Testing Mortar) and ASTM C1714 Section 9.1.2.
16. Sakrete® High Strength Concrete Mix is a dry, factory-blended concrete mix consisting of Type II Portland Cement, sand, 3/8" aggregate and may be used where a 4000 psi concrete mix is specified. The product conforms to the requirements of ASTM C387.

The above products are approved subject to the following conditions:

1. The Type M and Type S Mortars shall be proportioned in accordance with ASTM C 270.
2. The mortars shall not be used for foundations and concrete flatwork.
3. The grouts shall be proportioned in accordance with ASTM C 476.
4. The masonry mortars and masonry grouts shall be delivered in weatherproof containers complying with Section 8.4 of ASTM C 387. The containers shall be identified by a label showing the product name, the mortar type or grout compressive strength at 7 days and 28 days, the mix design conforms to Section 2103.2 of the 2017 Los Angeles Building Code for mortars or 2103.3, for grouts, the net weight, the minimum and maximum water required, and the manufacturers name.
5. The Pre-Mix Deck Mud Mix and Wall Mud Mix shall be delivered in weather proof containers complying with Section 8.4 of the ASTM C 387. The containers shall be identified by a label showing the product name, the mix design conforms to Table 2103.2.3 of the 2017 Los Angeles Building Code, the net weight, the minimum and maximum water required, and the manufacturer's name.
6. The Pre-Mix Deck Mud Mix contains no hydrated lime and shall only be used for the setting bed for ceramic tile on floors. The mix shall be proportioned in accordance with Table No. 2103.2.3 of the 2017 Los Angeles Building Code.
7. The Pre-Mix Wall Mud shall be limited for use as a float or leveling coat on walls for setting ceramic tile. The mix shall be proportioned in accordance with Table No. 2103.2.3 of the 2017 Los Angeles Building Code.
8. The Spec Mix® Scratch and Brown/Base Coat Plaster shall be proportioned in accordance with ASTM C 926, Table 3 for Portland Cement-Lime Plaster.
9. There shall be no intermixing of mortars, grouts, or concretes (i.e. Type M Mortar shall not be intermixed with Type S Mortar; 2,000 psi grout shall not be intermixed with 3000 psi grout; etc.).

10. The mortars or grouts shall not be applied at temperatures below 40 °F.
11. No mortar, grout, or concrete with an elapsed time of 90-minutes or more after initial mixing shall be used.
12. Tests and sampling shall be conducted as follows:
 - a. Samples for each product shall be taken weekly.
 - b. Each sample shall be analyzed for conformance to Table 4.1 of ASTM C 144 for the masonry mortars and the tile setting mortars, and Table 1 of ASTM C 404 for the concrete grouts.
 - c. Compressive strength testing will be conducted monthly on masonry mortar and grout specimens in accordance with ASTM C 387.
 - d. All tests shall be documented according to batch numbers.
 - e. All of the above information shall be available for Building and Safety Personnel at any time.
13. Pre-Mix Grout Additive may be added to grouts proportioned in accordance with ASTM C 476 at the rate of 1% of the total cement content by weight. The grout mix design shall be a minimum of 6 sacks of cement; 60-70% washed concrete sand and 30-40% 3/8" aggregate per yard. The Grout Additive shall be used for high lift grouting of masonry only.
14. The Sakrete® High-Strength Concrete Mix shall be mixed, placed and cured per manufacturer instructions.

DISCUSSION

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

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.

E-Z Mix, Inc., DBA
RE.: Pre-Mix Products

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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