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SS MORTAR®

Splice-sleeve grout

Description

SS MORTAR® is a nonshrink, high-strength, metallic-aggregate, ready-to-use, special filler mortar for NMB Class 1 and 2 splice sleeves.

Features/Benefits

- Extended working time - Hardens free of bleeding, settlement, or drying shrinkage when properly mixed, placed, and cured
- Can be installed at ambient temperatures ranging from as high as 90°F (32°C) to as low as 40°F (4°C) when mixing and placing recommendations are followed
- Can be pumped or poured

Where to Use SS MORTAR®

- NMB splice sleeve mechanical connectors for Class 1 and 2 sleeves

Important: Read This First

ChemRx® does not warrant the performance of this product unless the instructions of this document and other related ChemRx® documents are adhered to in all respects.

How to Apply SS MORTAR®

Application - NMB Splice Sleeve Mechanical Connectors

ChemRx® recommends that the user request the services of the local representative for a pre-job conference to plan the installation.

Consistency

The amount of water needed to produce the desired consistency will depend upon mixing time, the temperature of the grout following mixing, and the size of the batch mixed. A batch should contain increments of full bags. The recommended field consistency is 5.0 in. to 6.0 in. (127 mm to 152 mm) as determined by the use of the ChemRx® Inc. Flow Guide. The suggested amount of mixing water for the initial trial mix to produce this flow is 12 - 15% by weight of SS MORTAR® - 1 gallon (8.34 lb.) (3.81 or kg) per 55 lb. (25 kg) bag. If additional water is required to meet the consistency specification, it should not result in a ChemRx® Flow Guide diameter of greater than 6.5 in. (165 mm) nor should the total water content of the mix exceed a maximum of 17% by weight of SS MORTAR® - 1.1 gallon (8.36 lb.) (4.2 L or kg) per 55 lb. (25 kg) bag.

Preparation

For pre-grout applications, ensure that the splice sleeves are clean and free of all debris, water, and any other foreign matter before starting grout operations.

For post-grout applications, remove the hole seals in the grout inlet and outlet tubes and inspect for blockage in the tubes. Inspect the sleeves and grout tubes with a bright light to ensure there are no foreign materials or obstructions. Blow air through the sleeves using the inlet or outlet tube to ensure there are no obstructions in the sleeves.

Temperature

Store and mix mortar to produce the desired mixed mortar temperatures under jobsite conditions. Use warm water in cold weather. Ideally, the splice sleeve or substrate should be in the 50° to 90°F (10° to 32°C) range. Mixed mortar temperatures should fall between 50° and 90°F (10° and 32°C).

Recommended Temperature Guidelines

| | Minimum | Preferred Range | Maximum |
|------------------------------|-------------|----------------------------|-------------|
| Splice Sleeves | 40°F (4°C) | 50° to 80°F (10° to 27°C) | 90°F (32°C) |
| Mixing Water | 40°F (4°C) | 50° to 80°F (10° to 27°C) | 90°F (32°C) |
| SS Mortar® as mixed & placed | 50°F (10°C) | 50°F to 80°F (10° to 27°C) | 90°F (32°C) |

Caution: When grouting at minimum temperatures, care must be taken to see that the splice sleeve and grout temperatures do not fall below 40°F (4°C) until after final set and that the grout is protected from freezing (32°F (0°C)) until it has reached 1,500 psi (10.3 MPa) compressive strength. Difficulty in pumping and premature stiffening may be the result of excessive grout temperatures.

Mixing

Use drinkable water only. For mixing grout, use an electric drill with a mixing blade. Do not mix by hand. Do not add cement, sand, aggregate, or admixtures.

As the first step in mixing, place all water into the mixing pail, then pour all of the SS MORTAR® into the pail while stirring it with a high-speed mixer. The water requirement should be established in a test batch. After all materials are put into the pail, mix grout for a minimum of 5 minutes or longer if required for a uniform mixture. After the grout has been mixed, use it within 40 minutes. Do not retemper grout by adding water and reworking after it stiffens.

Note: SS MORTAR® is designed to be placed at a spread of 5 to 6 in. (127 to 152 mm) (maximum of 6.5 in. (165 mm)) when a cylinder of nominal dimensions, 2 in. (51 mm) in diameter x 4 in. (102 mm) in length, is filled and lifted off a nonabsorbent flat surface (such as a ChemRx® Flow Guide). The exact amount of water needed will depend upon the temperature of the grout following mixing and the size of the batch mixed, but it should not be greater than 17% of the total mix by weight. The use of warm mixing water, not exceeding 90°F (32°C), may be used with cold, dry grout or when placing at the lower temperature limit of 50°F (10°C).

Limited Warranty Notice

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