

SS MORTAR

SPLICE SLEEVE GROUT

DESCRIPTION:

SS MORTAR (GROUT) is a nonshrink, high strength, metallic-reinforced, ready-to-use, special filler mortar for NMB splice sleeves.

APPLICATION:

NMB Splice Sleeve mechanical connectors.

IMPORTANT: READ THIS FIRST

Master Builders, Inc. does not warrant the performance of this product unless the instructions of this document and other related Master Builders documents are adhered to in all respects.

The following suggestions represent generally accepted procedures for successful installation. They may be followed, modified or rejected by the owner, engineer, contractor or their representative since they, not Master Builders, are responsible for planning and executing procedures appropriate to a specific application.

PACKAGING:

SS MORTAR (GROUT) is packaged in 55 lb (25 kg) moisture-resistant bags. The yield is 0.42 ft³ (0.012 m³) per 55 lb (25 kg).

CONSISTENCY:

The amount of water need 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 Master Builders Flow Guide. The suggested amount of mixing water for the initial trial mix to produce this flow is 15% by weight of SS MORTAR (GROUT) – 1 U.S. gal (8.34 lb) [3.8 L or kg] per 55 lb (25 kg) bag. If additional water is required to meet the consistency specification, it should not result in a Master Builders 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 (GROUT) – 1.1 U.S. gal (9.36 lb) [4.2 L or kg] per 55 lb (25 kg) bag.

DIRECTIONS

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. Consider using warm water in cold weather. Ideally, the splice sleeve or substrate should be in the 50° to 80 °F (10 ° to 27 °C) range. Mixed mortar temperatures should fall between 50 ° and 80 °F (10 ° and 27 °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 (Grout) as Mixed & Placed	50 °F (10 °C)	50 °F to 80 °F (10 ° to 27 °C)	80 °F (27 °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.

ESTIMATING DATA:

One 55 lb (25 kg) bag of SS MORTAR (GROUT) mixed with 15% of water [8.25 lb (3.75 kg)] produces approximately 0.42 ft³ (0.012 m³) of material.

STORAGE LIFE:

SS MORTAR (GROUT) has a shelf life of approximately 18 months when stored in a cool, dry environment. The expiration date is printed on each bag. Grout which has been stored beyond the expiration date should be discarded.

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.

NOTE: SS MORTAR (GROUT) 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. (50 mm) in diameter x 4 in. (100 mm) in length, is filled and lifted off a non absorbent flat surface (such as a Master Builders 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 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 range.
(10 °C) (10 ° to 27 °C) (27 °C)

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As the first step in mixing, place all water into the mixing pail, then pour all of the SS MORTAR (GROUT) into the pail while stirring it with the 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 remixing after it stiffens.

PLACING:

In pre-grout applications, pour the grout continuously into the sleeve and rod with a small diameter rod (such as a welding rod) to remove any entrapped air in the sleeve.

In post-grout applications, pump the grout into the inlet tube until it flows freely without air bubbles from the outlet tube. Seal the outlet tube with a rubber stopper of the proper size. Remove the pump nozzle from the inlet tube and immediately seal the inlet tube with a rubber stopper to avoid any loss of grout.

SUPPLEMENTAL

Sampling and Testing: Testing of SS MORTAR (GROUT) should be performed by an authorized laboratory, and sampling should be done at the jobsite. Follow ASTM C 942 for sampling, fabrication, storage and curing of specimens. Samples must be cured under water at the jobsite for 24 hours before transfer to the laboratory for wet or moist room curing. Samples may be tested to determine early strength gain in order to determine when the sleeves have developed sufficient strength to remove temporary supports or to determine 28-day strength. Consult your local Master Builders representative for additional information.

IMPORTANT:

- Do not add cement, sand, aggregate or admixtures.
- Store in a dry place.
- Do not use if bag is damaged.
- Read information on how to use.

For the procurement of SS MORTAR or for technical/field service, contact Master Builders, Inc.

WARNING

SS MORTAR (GROUT) CONTAINS PORTLAND CEMENT AND SILICA SAND. PORTLAND CEMENT IN COMBINATION WITH WATER MAY CAUSE SKIN IRRITATION, RASH AND ALKALI BURNS. PROLONGED EXPOSURE TO SILICA MAY CAUSE DELAYED LUNG INJURY (SILICOSIS). THERE IS LIMITED EVIDENCE OF CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS.

DO NOT BREATHE DUST. FOLLOW SAFETY AND HEALTH STANDARDS FOR QUARTZ DUSTS. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH THIS PRODUCT. REMOVE SOILED CLOTHING AND WASH CLOTHING BEFORE REUSE.

FIRST AID

Eyes: Flush with water for 15 minutes, lifting upper and lower lids occasionally; seek medical attention.

Skin: Wash with soap and water. Get medical attention if exposure is extensive.

Inhalation: Remove person to fresh air.

WASTE DISPOSAL METHOD

This product, when discarded or disposed of, is not listed as a hazardous waste in Federal regulations. Dispose in a landfill in accordance with local regulations.

For additional information on personnel protective equipment, first aid and emergency procedures, refer to the product Material Safety Data Sheet (MSDS) on the jobsite or call (216) 831-5500 in Cleveland, Ohio, the 24-hour Chemtrec (800) 424-9300, or Chemtrec D.C. area 483-7616. In Quebec, call (514) 331-7811.

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