



GUIDELINE FOR WRITING SPECIFICATIONS WHEN USING JAHN M110 POINTING MORTARS

Select Relevant Selection

Division 4 - Masonry

Part 1 – GENERAL

1.1 SUMMARY OF WORK

- A. For pointing of limestone, sandstone, precast concrete, structural concrete, brick, terra cotta, marble, or granite.

1.2 SUBMITTAL

- A. Submit the following items in time to prevent delay of the work and to allow adequate time for review and resubmittals, if needed; do not order materials or start work before receiving the written approval:
 - 1. Pointing mortar shall be: Jahn M110 Pointing Mortar available through:
Cathedral Stone Products, Inc.
7266 Park Circle Drive
Hanover, MD 21076
Samples shall be submitted for color matching to the same address.
 - 2. Samples of all specified materials and Safety Data Sheets (SDS) as appropriate.
 - 3. Install mortar samples on the building. Do not make samples in cups or apply to plywood or other non-masonry surfaces.
 - 5. *Written verification from the Contractor that all specified items will be used. Provide purchase orders, shipping tickets, receipts, etc. to prove that the specified materials were ordered and received.*

1.3 QUALITY ASSURANCE/TEST REQUIREMENTS

- A. *Mortar Samples:* Prepare a sample of each type of repair listed below, using masonry removed from the building where designated by the Owner. Prepare, install, and finish each sample repair according to the specifications. **All samples must be applied to masonry.** Prepare samples in an area where they will be exposed to the same conditions as will be present on the building during curing. **Allow samples to cure at least three days (or longer, if possible) before obtaining Owner's approval for color match.** Mortar colors will continue to lighten as they cure and are exposed to the weather, so samples should be installed as far in advance as possible. A slightly darker color will give better long-term results. **Samples should be viewed from a minimum distance of 18-22 feet.**

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Materials are to be delivered, stored, and handled to protect them from damage, extreme temperature, and moisture in accordance with Manufacturer's written instructions.
- B. Deliver and store material in Manufacturer's original, unopened containers with the production date shown on the container or packaging.
- C. Comply with the Manufacturer's written specifications and recommendations for mixing, application, and curing of mortars.

1.5 PROTECTION/SITE CONDITIONS

- A. *Cold Weather Requirements:* Do not work in temperatures below 40° F, when the substrate is colder than 40° F, or when the temperature is expected to fall below 40° F for 72 hours after installation of repair mortars. Building an enclosure and heating areas to maintain this temperature may only be done with the written approval of the Specifier.
- B. *Hot Weather Requirements:* **Protect repair mortar from direct sunlight and wind.** Do not use or prepare mortar when ambient air temperature is above 90° F.

Part 2 – PRODUCTS

2.1 MASONRY POINTING

- A. Jahn Pointing Mortars are distributed by Cathedral Stone® Products, Inc., 7266 Park Circle Drive, Hanover, MD 27016; tel. (410) 782-9150; fax. (410) 782-9155; website: www.cathedralstone.com email: info@cathedralstone.com. Mix the mortar with clean, potable water. Excessive water will lighten the color of the cured mortar.

Substitutions: If proposed equal is submitted, lab test to establish equivalent performance levels. Use an independent testing laboratory, as determined by the Specifier, and paid for by the submitting party.

Part 3 – EXECUTION

3.1 WORKMANSHIP

- A. Do not use any additives, such as bonding agents, accelerators, or retardants in the mortar.

3.2 PREPARATION FOR POINTING

- A. Existing mortar shall be removed to a minimum depth of 2 ½ times the width of the joint. In all instances, remove all unsound mortar. Do not remove mortar in excess of one-third the dept of the masonry unit. Dust and debris should be removed from the joint by brushing, rinsing with water, or compressed air.
- B. Joints should be dampened prior to pointing, but there should not be any standing water.

3.3 MIXING MORTAR

- A. It is recommended that a dust mask be worn during mixing. Do not mix more material than can be used within 30 minutes. Discard any mixed material that has been unused for 30 minutes or more.
- B. Mixing ratio
 - 1. Approximately 4 to 5 parts dry material to 1 part water:
This ratio is approximate. Adjustments to the amount of water must be made according to local weather conditions. Excessive water will lighten the final color. Pointing mortar should be drier than setting mortar to help control color.
- C. Add water to dry ingredients and mix well. Adjust amount of water according to the weather and the porosity of the substrate.

3.4 APPLICATION

- A. **Jahn M110 Pointing Mortar can be applied in a single lift regardless of the depth. Successive lifts with waiting periods between lifts are not necessary.**
- B. Apply pointing mortar to a dampened surface, packing the mortar into the joint to ensure full depth compaction. The mortar should be brought flush with the face of the masonry unit, and left to set for final tooling.

3.5 FINISHING TECHNIQUES

- A. After mortar joint has "set" (the time for this will vary depending on the depth of the application, dampness of the masonry, and local weather conditions). The joint should then be tooled to the desired finish. Do not allow mortar to harden before tooling, to prevent "burning" the joint.
- B. Clean up should be done by brushing with a clean dry brush across the joint. If any mortar residue remains on the surface of the masonry unit, cleaning with clean water and a sponge is sufficient if done before the mortar dries. Cleaning with acids and/or power washers should be not necessary if good pointing practices are followed. If acid cleaning is required test samples should be applied prior to start of cleaning to ensure no damage will result. **Neutralization of all acids must be ensured.**
- C. Do not allow pointing mortar beyond the face of the masonry unit. All edges of masonry shall remain visible. Pointing mortar should be applied to ensure this, or can be "raked" back slightly to expose edges of masonry, giving historic appearance.

3.6 CURING PROCEDURE

- A. Dampening should begin as soon as the mortar has set sufficiently. Local weather conditions shall dictate the frequency, but hot weather requires this procedure to begin earlier (as soon as one hour) and to be done more frequently. Finished pointing should be dampened for 72 hours.
- B. If mortar dries too rapidly, and does not bond, it shall be replaced at contractor's expense.

END OF SECTION

02/2012