



GUIDELINE FOR WRITING SPECIFICATIONS WHEN USING JAHN M60 STUCCO/PLASTER MORTARS

Select Relevant Selection

Division 4 - Masonry

Part 1 – GENERAL

1.1 SUMMARY OF WORK

- A. For the application of stucco to existing masonry or for repairs.

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. Samples of all specified materials and Material Safety Data Sheets (MSDS) as appropriate.
 2. Install mortar samples on masonry—preferably on the building. Do not make samples in cups or apply to plywood or other non-masonry surfaces.
 3. *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, install, and finish each sample repair according to the M60 data sheet instructions. **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 to 22 feet.**
- B. Cathedral Stone Products, Inc. recommends that only experienced stucco or plastering contractors, or trained Jahn Stucco applicators use this material. Without knowledge of sufficient substrate saturation, the substrate might draw the moisture out of the Jahn M60 too quickly, and bond will not be achieved. Please contact a technical representative of Cathedral Stone for more assistance.

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 48 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 REPAIR

- A. Jahn Restoration Mortars are distributed by Cathedral Stone® Products, Inc., 7266 Park Circle Drive, Hanover, MD 21076; tel. (410) 782-9150; fax. (410) 782-9155; website: www.cathedralstone.com email: info@cathedralstone.com. Jahn Mortars are premixed cementitious repair materials formulated to match the color and texture of the existing stucco/plaster, and do not contain any acrylic, latex, or other synthetic polymer additives. Mix the mortar with clean, potable water.

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.

- B. *Wire Lathe/Mesh:* If wire lathe/mesh is desired, **stainless steel** wire lathe/mesh must be used. In addition, all anchors or attachments for the lathe/mesh must be **stainless steel**.

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 REPAIRS

- A. Remove all existing loose stucco/plaster down to the substrate prior to installation of the Jahn stucco/plaster. "Sound" masonry with a hammer to verify its integrity. If necessary, cut away an additional 1/2" of the substrate to ensure the surface to be repaired is solid and stable. Remove any sealant residue.
- B. Where cramp anchors, threaded rod anchors, or dowels have been cut and pieces remain embedded in the substrate: Anchors that are free of rust, solidly embedded may remain so long as they are covered with a minimum of 3/4 inch of stucco/plaster. All others should be removed.
- C. If repairing existing stucco/plaster, cut the edges of the repair area to provide a minimum depth of 1/2". The edges of the repair should be square cut. **Do not allow any feathered edges in the repair area.**

**FOR DEEP OR OVERHANGING REPAIRS OR FOR USE IN HIGH RISE CONSTRUCTION,
PROCEED WITH D-F, OTHERWISE SKIP TO G**

- D. Install mechanical anchors in all repair areas if specified on the Contract Drawing or as otherwise directed by the Specifier.
- E. *Install anchors as follows:*
 - 1. Drill holes to diameter specified on Contract Drawing.
 - 2. Clean holes using compressed, oil-free air, and bristle brushes, until no dust cloud is produced when a brush, inserted the full depth of the hole, is pulled out of the hole.
 - 3. Embed anchors in back-up using Jahn M80, mixed according to Manufacturer's instructions.
 - 4. Anchors should be covered with a minimum of ¾ inch repair material.
- F. Clean all dust from surface and pores of the substrate, using clean water and a scrub brush.
- G. For all surfaces, pre-wet the substrate ahead of time to prevent the substrate from drawing moisture out of the mortar too quickly. **The substrate requires intensive presoaking prior to application of the Jahn M60.** Thoroughly presoak until saturated (Saturated Surface Dry or SSD).

3.3 MIXING MORTAR FOR REPAIR

- 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 for Jahn M60 is approximately 4 parts powder to 1 part water by volume, depending on temperature and humidity. This ratio can be altered as needed to suit local conditions.
- 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 OF REPAIR MATERIAL

- A. The material can be applied by trowel in a single application, or lifts if desired. Minimum thickness of the Jahn M60 is ½ inch.
- B. If applying Jahn M60 in lifts, additional surface preparation is required to maintain adhesion between layers. Scratch or brush and comb the surface of the initial coat to remove the cement skin formed during troweling. This will open the pores before an additional layer of material is applied. Then scratch again with a plasterer's comb to create more surface area for mechanical bonding. Apply the second coat 48 to 72 hours later; making sure the surface is properly presoaked.

3.5 FINISHING TECHNIQUES

- A. The waiting period before finishing will vary, depending on wind, temperature and humidity. After initial set up, while the stucco/plaster is still workable, finish the surface with a dry sponge/float or wooden float in order to prevent surface map cracking of the material. **Never use a damp sponge/float for final finishing.** Final texture will vary depending on the float chosen for finishing.

- B. Install faux joints, block lines, or historic tooling immediately after finishing while the stucco/plaster is still workable.
- C. Clean any mortar residues from area surrounding the application/repair by sponging as many times as necessary with clean water. This should be done before repair material sets.
- D. After the repair has been cured and allowed to dry for at least one week, if the appearance of a repair does not meet the specifications of the job, the surface color of the repair may be enhanced by applying a vapor permeable, mineral based pigmented stain. (masonRE Stain, a mineral based pigmented stain is available from Cathedral Stone[®] Products, Inc., 7266 Park Circle Drive, Hanover, MD 21076; tel. (410) 782-9150; fax. (410) 782-9155.)

3.6 CURING PROCEDURE

- A. Lightly mist the repair with water to wet the entire surface of the finished repair approximately 30 minutes to 1 hour after completion on hot sunny days, and approximately 2 hours or longer, on cool or cloudy days. Time will vary with temperature and humidity. Mist several times a day on the three days following the repair installation. Should access to the repairs be impossible for a period of time, plastic may be used to cover them temporarily. The application of plastic, however, does not remove the need for normal curing techniques. *Never cover repairs with plastic immediately after finishing—the water in the repair will be trapped on the surface, causing it to lighten.*

3.7 CLEAN UP

- A. Remove uncured mortar from the perimeter of the repair before it dries using clean water and a rubber sponge. Repeat several times with clean water to prevent a halo effect (staining of adjacent masonry). Cured mortar may only be removed chemically or mechanically.
- B. Remove uncured mortar from tools and equipment with water as soon as possible. Cured material may only be removed chemically or mechanically.

END OF SECTION

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