

ITEM 01560.9903 M - TUCK POINT MASONRY (Square Meters)
ITEM 01560.9904 M - TUCK POINT MASONRY (Linear Meters)

DESCRIPTION

Point deteriorated joints in brick, stone, or similar masonry where indicated on Contract Plans or directed by the Engineer. For historic masonry structures made with soft hydrated lime mortars, use a specially designed lime mortar as shown in the Contract Documents or as approved by the Engineer.

MATERIAL REQUIREMENTS

Use a tuck pointing mortar with the same or weaker strength than the original mortar, as determined by the Engineer.

Use a Type M, S or N mortar consisting of 1 part masonry cement (Type M, S or N with minimum strengths of 17.2, 12.4, and 5.2 MPa, respectively) and 3 parts sand. For traffic load and severe weathering conditions, use Type M.. For clay masonry, use only a Type S or N masonry cement mortar.

Follow the requirements of §560-2.06, except no hand mixing of mortar will be allowed. Add the minimum water to the dry ingredients to produce a mortar that retains its form when hand squeezed and released. Allow this mortar to stand covered (prehydrate) for 1 to 1½ hours to greatly reduce shrinkage. Then mix with sufficient water to produce a stiff, but workable consistency, and use within 2½ hours of initial mixing. To avoid color variations, do not re-temper the mortar when matching a color or using a coloring agent.

CONSTRUCTION DETAILS

Perform pointing only when the ambient temperature is 5°C or above, and the masonry is frost free.

Remove loose, cracked and deteriorated mortar to a minimum depth (measured from the wall face) of 2 times the average width of the joint, and remove all deteriorated mortar beyond the minimum depth, as ordered by the Engineer. Do not damage the masonry during the removal process. Clean all prepared joints.

Prior to pointing, flush with water and leave all surfaces to be mortared in a dampened, surface dry state.

Pack the prepared joints in layers with mortar that closely matches the original color and texture, allowing each layer to become thumb-print hard before the next. Apply a final layer thickness that does not exceed the joint width. When the final layer is thumb-print hard, finish with a pointing tool that recreates the original joint shape, or as approved by the Engineer. Avoid recessed joints that hold water.

After the mortar sets, clean all mortar and cement stains from other surfaces.

In direct sunlight, keep the newly pointed masonry moist for at least 3 days. In shade, moisten 2 to 3 times a day for at least 3 days.

METHOD OF MEASUREMENT

The Engineer will measure this work as the number of square and/or linear meters pointed and cleaned.

BASIS OF PAYMENT

Include all labor, material, and equipment to complete this work in the unit price item bid.