

Special Specification 4187

Remove and Replace Tar with Structural Grout



1. DESCRIPTION

Remove existing tar and replace with structural grout at bridge substructure where shown on the plans.

2. MATERIALS

2.1. **Structural Grout.** Provide non-shrink grout in accordance with [DMS-4675](#), "Cementitious Grouts and Mortars for Miscellaneous Applications," as indicated on the plans.

2.2. **Water.** Furnish water meeting the requirements of Item 421, "Hydraulic Cement Concrete."

2.3. **Expansion Joint Material.** Provide materials in accordance with [DMS-6310](#), "Joint Sealants and Fillers." Provide a Class 4 low-modulus silicone sealant unless otherwise directed.

3. EQUIPMENT

3.1. **Hand Tools.** Provide enough hand tools for placing, consolidating, striking off, and finishing stiff plastic grout.

3.2. **Abrasive Blasting.** Provide equipment capable of removing oil, dirt, tar, etc., from the surface of the steel.

3.3. **Grout Mixer.** Provide a volumetric continuous or mortar mixer.

4. WORK METHODS

Clear loose debris from bolster bases and wind shoes by methods that will not damage steel or concrete substructure.

Remove tar down to the minimum depth noted on the plans. If corrosion is found on the perimeter steel at the noted depth, continue to remove tar until perimeter steel shows no signs of corrosion or as approved. Abrasive blast cleaning is permitted to be used to remove the remaining tar once most of the accessible tar has been removed using other approved methods. Collect and dispose of tar and any hazardous materials in accordance with federal, state, and local regulations.

Use methods to remove tar that do not damage the adjacent steel and are approved. The use of water blast cleaning and chemical cleaning are not permitted unless approved.

In areas where tar remains, add a fabric bond breaker to the surface of the remaining tar unless otherwise approved.

Before placing grout, clean and paint the exposed steel utilizing Paint System III-A in accordance with Item 446, "Field Cleaning and Painting Steel."

Place non-shrink grout into the void and slope the top of the grout, utilizing formwork to the slope noted on the plans. Formwork, placement, and curing of structural grout must meet the requirements of Item 420, "Concrete Substructures."

Seal perimeter between the grout and adjacent steel with approved Class 4 silicone joint sealant in accordance with [DMS-6310](#), "Joint Sealants and Fillers."

5. MEASUREMENT

This Item will be measured by each bent, regardless of bent length, which includes bolster bases and wind shoe locations located on the bents as shown on the plans.

6. PAYMENT

The work performed and the materials furnished, in accordance with this Item and measured as specified under "Measurement," will be paid for at the unit price bid for "Remove and Replace Tar with Structural Grout." This price is full compensation for removal of the tar, loading, hauling, disposal of hazardous materials, furnishing materials, equipment, labor, tools, and incidentals.

Payment for cleaning and painting steel is in accordance with Item 446, "Field Cleaning and Painting Steel."