

## **PART 1 - GENERAL**

### **1.1 PRIORITY**

1. In the case of work carried out for the Federal Government, Division 1 sections take precedence over the technical sections of the other divisions of the project bid.

### **1.2 SCOPE OF THE WORK**

1. Apply whitewash to all existing exterior stone masonry pillar surfaces in so that the surfaces all match. Prepare and wash the existing surface prior to application of the whitewash.

### **1.3 SAMPLES**

1. Prior to applying each whitewash coat, apply a sample of the coat on an area designated by the Departmental Representative.

### **1.4 MEASUREMENTS FOR INVOICING PURPOSES**

1. Whitewash: the whitewash jobs will be paid on a flat rate lump sum basis. The price includes all materials, labor and equipment needed to clean and prepare surfaces, protect adjacent surfaces, apply the whitewash, the costs arising from protection and cure as well as final cleanup.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

1. Aggregate: natural fine colored sand for the reproduction of the color of the existing plaster aggregate that contains no salts that may be harmful to the strength and appearance of the mortar.
2. Lime: in compliance with ASTM C5-03, C207-05 and C206-03 standards.
3. Portland cement: Type 10, in compliance with standard CAN3-A362-M98.
4. Water: clean, free of acid, alcohol, oil and organic matter.
5. Cement binder.
6. Whitewash: Mix whitewash using the following ratios:
  1. water as needed;
  2. 48 oz. lime paste;
  3. 36 oz. Portland cement;
  4. 108 oz. fine sand (white).
7. For the finishing coat and whitewash, use a sand color that will allow the finishes to match the existing one. Create 1 meter by 1 meter samples and submit them to the Departmental Representative. Use

colorants or fragments if needed. The quantity of these additives should not exceed 10% of the weight of the cement being used.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION OF THE SURFACES**

1. Prepare and clean the surface to remove dirt, vegetation, grease, mud or any other substance that may prevent the new coats from adhering in a manner satisfactory to the Departmental representative.

### **3.2 MIXTURE**

1. Use water-tight, dry, clean containers that are free from materials and are cleaned after each mix.
2. Don't mix more than the amount that can be applied during the following hour.
3. Protect the mixture from evaporation or freezing. Do not add water or dry material to the mixture already made.
4. Add only the minimum amount of water required to the mortar mixture to ensure correct use.

### **3.3 APPLYING THE WHITEWASH**

1. Examine the masonry surfaces to be treated and make sure that the base is solid prior to the application. Remove all coatings, dirt and non-adhered material from the surface.
2. The surface to be whitewashed must be at a temperature of at least 10°C for twelve hours prior to application. Cover and heat as needed in order to maintain the required temperature. Wet dash should not be kept at a temperature below 10°C.
3. Saturate the masonry to be covered with water for two (2) hours preceding application. Spray at least every fifteen (15) minutes to keep the surfaces wet without dripping.
4. Perform applications during cloudy weather or following a sunny period of time when the temperature is warm, steady and free of danger of frost or wind. Once the work is finished without shelter, ensure a high level of humidity.
5. Apply coating in thin layers.
6. Application must be done without interruption on each surface to be treated in order to reduce seaming as much as possible.
7. The finishing coat surface should be smooth and uniform just like the existing one.
8. Protect sealers from direct sun, wind and rain with tarps.
9. Begin intensive spraying when fast drying periods occurs. To this end use a mister to supply the necessary moisture for normal setting. Ensure that the surface remains moist for forty-eight (48) consecutive hours following the mortar application.

10. Apply the mixture as you would a whitewash or using a suitable brush.

11. Application should be performed on each side without interruption.

### **3.4 PROTECTING THE FINISHED WORK**

1. At end of each work day, cover, using a firmly secured waterproof tarp any completed and partially completed work that is not enclosed or covered.

### **3.5 CLEANING**

1. Following each phase of the work, carefully clean the area on the ground and on the adjacent wood surfaces.

**END OF SECTION**

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