

ITEM 595.01 11 - PAINT FOR CONCRETE SURFACES

DESCRIPTION:

The work shall consist of furnishing and applying paint on concrete surfaces in conformance with the details shown on the Contract Drawings, and where directed by the Engineer.

MATERIALS:

Any of the three following products may be used for the high build, waterborne acrylic, weatherproof coating:

1. W.B. Tneme-Crete 180, as manufactured by Tnemec Co., Inc.
2. Hydrocide Flexcoat, as manufactured by Sonneborn Building Products.
3. Sikagard ElastoColor, as manufactured by Sika Corporation.

CONSTRUCTION DETAILS:

Apply water-based paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 10 and 32 deg C.

Do not apply paint in snow, rain, fog, or mist; or when the relative humidity exceeds 85 percent [80 percent for Sikagard ElastoColor]; or at temperatures less than 3 deg C above the dew point; or to damp or wet surfaces.

Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.

Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.

Provide finish coats that are compatible with primers used.

Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.

ITEM 595.01 11 - PAINT FOR CONCRETE SURFACES

The number of coats and the film thickness required are the same regardless of application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications.

If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and where application of another coat of paint does not cause the undercoat to lift or lose adhesion.

Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.

Brushes: Use brushes best suited for the type of material applied. Use brush of appropriate size for the surface or item being painted.

Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the material and texture required.

Spray Equipment: Use airless spray equipment with orifice size as recommended by the manufacturer for the material and texture required.

Spreading Rate / Minimum Coating Thickness [as per manufacturer's Data Sheet]: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.

Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn through or other defects due to insufficient sealing.

Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.

ITEM 595.01 11 - PAINT FOR CONCRETE SURFACES

METHOD OF MEASUREMENT:

Paint for Concrete Surfaces will be measured by the actual number of square meters painted to the nearest square meter of finished surface.

BASIS OF PAYMENT:

The unit price bid per square meter of painted concrete shall include all labor, material, equipment, surface preparation and all incidentals and appurtenances necessary to satisfactorily complete the work, including delivery, inspection and storage of spare concrete masonry paint.

Payment will not be made for repairs to damaged areas caused by the Contractor's operations. No payment will be made for painting concrete or work related thereto that has not been accepted by the Engineer or that has degraded due to the Contractor's negligence, material failure, or improper storage of the material.