

SECTION 07150  
DAMPPROOFING

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope

1. Coal tar type dampproofing of concrete

B. Additional Requirements Specified Elsewhere

1. Section 01340: Shop Drawings and Product Data
2. Section 01600: Materials and Equipment

C. Related Requirements Specified Elsewhere

1. Section 03300: Cast-In-Place Concrete
2. Section 09900: Painting

1.2 QUALITY ASSURANCE

- A. Dampproofing shall not be covered with backfill or other materials until inspected and approved by Engineer

1.3 SUBMITTALS

A. Shop Drawings and Product Data

1. Descriptive data on products to be used

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver in manufacturer's unopened containers and store at a temperature of at least 50°F

1.5 JOB CONDITIONS

- A. Environmental Conditions: Do not apply if air temperature or surface temperature is below 40°F
- B. Do not apply when wind blown dust, dirt, debris or insects will collect in the coating

## PART 2 - PRODUCTS

### 2.1 MATERIALS

#### A. Coal Tar Dampproofing

1. Tnemec 46-465-HB Tnemecol

- #### B. Equivalent products of other manufacturers may be accepted subject to compliance with design, function, materials and performance of the specified items

## PART 3 - EXECUTION

### 3.1 INSPECTION

- #### A. Examine surfaces to receive dampproofing to assure conditions are satisfactory for application of materials

### 3.2 PREPARATION

#### A. Apply coal tar dampproofing to clean, dry surfaces

1. Remove dirt, dust, sand, grit, mud, oil, grease and other foreign matter
2. Fill all voids and honeycombs in concrete walls with grout
3. Brush down surfaces to remove all loose scale, fins, dust, etc.
4. Protect surfaces not to be coated from contamination, discoloration or other damage with drop cloths or other suitable methods
5. Complete surface preparation in accordance with manufacturer's recommendations
6. Provide for curing of concrete substrate in accordance with manufacturer's requirements

### 3.3 APPLICATION

#### A. Coal Tar Dampproofing

##### 1. General

- a. Apply in two (2) coats with high pile rollers or by spray equipment
  - 1) Minimum air pressure: 90 psi
  - 2) Spray apply in a fine mist
- b. Provide adequate forced ventilation when applying coating in enclosed spaces
- c. Do not use benzol or other volatile solvents for thinning coating
- d. Do not permit coating to get on top of concrete walls or on exposed wall surfaces above specified limits

##### 2. First coat

- a. Apply only when surface of concrete is dry and at a suitable temperature for adequate penetration
- b. Thin as recommended by manufacturer
- c. Apply for maximum penetration

- d. Absorbed by concrete within 5 to 30 minutes of application so no continuous film remains on surface
3. Second coat: Cover surface with 10 mil high gloss film
4. In the event of blistering of the first coat, all blisters larger than ¼" diameter shall be broken before the subsequent coat is applied.

### 3.4 FIELD QUALITY CONTROL

#### A. Coal Tar Dampproofing

1. Do not cover with backfill until inspected by the Engineer
2. Cure material as recommended by manufacturer

### 3.5 SCHEDULE

#### A. Coal Tar Dampproofing

1. All exterior concrete wall surfaces forming a part of an interior room or gallery which will be in contact with earth backfill below finished grade and above the top of the footings or bottom slabs
  - a. Pumping and disinfection building
  - b. Headworks grit pump room
    - 1) Extend no less than 10 feet beyond limits of subgrade space onto adjacent grade beams
2. All interior or tank wall surfaces in contact with liquid from 12" above the high water level to 12" below the low water level
  - a. Aeration basins, digester basins, wet wells and day tanks
3. All interior surfaces of headworks channel in the Headworks Building including bottom channel and sidewalls
4. The entire interior of the
  - a. Aeration splitter structure
  - b. Secondary clarifier splitter structure

END OF SECTION