

SECTION 07120

FLUID-APPLIED WATERPROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

1.2 DESCRIPTION OF WORK:

- A. Extent of each type of fluid-applied waterproofing work is indicated on drawings.
- B. Types of fluid-applied waterproofing required for project include the following:
 - 1. Urethane based type.
- C. Provide the following foundation drain accessories:
 - 1. Foundation Drainage System at locations indicated on drawings.

1.3 QUALITY ASSURANCE:

- A. Installer Qualifications: A firm which has specialized in installation of types of waterproofing required for project for not less than 3 years and which is acceptable to manufacturer(s) of primary materials.
- B. Assign work closely associated with waterproofing, including (but not limited to) waterproofing accessories, and flashings used in conjunction with waterproofing, expansion joints in membrane, insulation and protection course on membrane, to installer of waterproofing, for single, undivided responsibility.
- C. Source Quality Control: Obtain primary waterproofing materials of each type required from single manufacturer with not less than 3 years of successful experience in supplying principal materials for fluid-applied waterproofing work. Provide secondary materials only as recommended by manufacturer of primary materials.

1.4 SUBMITTALS:

- A. Product Data: Submit manufacturer's specifications, installation instructions, and general recommendations for each waterproofing material required.

1.5 JOB CONDITIONS:

- A. Substrate: Proceed with work of this section only after substrate construction and penetrating work have been completed.

- B. Weather: Proceed with work of this section only when existing and forecasted weather conditions will permit work to be performed in accordance with manufacturer's recommendations.
- C. Ventilation: Provide adequate ventilation to prevent accumulation of hazardous fumes during application of solvent-based components in enclosed spaces, and maintain ventilation until coatings have thoroughly cured.

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. General Compatibility: Provide products which are recommended by manufacturer to be fully compatible with indicated substrates, including modification by additives and similar proven compounding provisions.
- B. Urethane Based Waterproofing: Polyurethane rubber based liquid membrane material, self-bonding to normal substrates, compounded specifically for application method to be used and for slope of substrate. Provide membrane with not less than 92% solids, tested by manufacturer to comply with requirements of ASTM C 836.
 - 1. Available Products: Subject to compliance with requirements, products which may be incorporated in the work include, but are not limited to, the following:
 - a. LM-60V: Gaco Western, Inc.
 - b. One-Kote System; Karnak Corporation.
 - c. Vulkem; Mameco International.
 - d. Perma-Gard; Neogard.
 - e. Hydrocide Liquid Membrane 5000; Sonneborn Div./ChemRex Inc.
 - f. Tremproof 60; Tremco.
- C. Miscellaneous Materials:
 - 1. Primer/Filler/Sealer: As recommended by manufacturer of waterproofing.
 - 2. Flashings, Cant Strips, and Accessories: As recommended by manufacturer of waterproofing.
 - 3. Protection Course: As recommended by manufacturer of waterproofing.
- D. Accessory Materials:
 - 1. Foundation Drainage System: MIRAFI "MiraDrain" G-Series Model G100N, or equal. Install as per manufacturer's recommendation.

PART 3 - EXECUTION

3.1 PREPARATION OF SUBSTRATE:

- A. Clean substrate of projections and substances detrimental to work; comply with instructions of prime materials manufacturer.
- B. Install cant strips and similar accessories as shown and as recommended by prime materials manufacturer even though not shown.
- C. Fill voids, seal joints, and apply bond breakers as recommended by prime materials manufacturer, with particular attention at construction joints.
- D. Mask off adjoining surfaces not to receive fluid-applied water-proofing to prevent spillage or overspray of liquid materials outside membrane area.

3.2 INSTALLATION:

- A. General: Comply with manufacturer's instructions, except where more stringent requirements are shown or specified.
- B. Start installation of waterproofing membrane only in presence and with advice of manufacturer's technical representative.
- C. Apply uniform coating of waterproofing to substrate and adjoining surfaces indicated to receive membrane.
- D. Apply coating either by hand or machine spray, complying with recommendations of manufacturer.
- E. Provide 60-mil (average) coating.
- F. Permit membrane to cure under conditions which will not deteriorate waterproofing material. Protect membrane from physical damage.
- G. Protection Course:
- H. Install protection course on cured membrane without delay, so that period of membrane exposure will be minimized. Comply with waterproofing manufacturer's recommendations for application.

3.3 PERFORMANCE REQUIREMENTS:

- A. It is required that fluid applied waterproofing membrane be watertight and not deteriorate in excess of limitations published by manufacturer.

...END OF SECTION 07120