

SECTION 07110

DAMPPROOFING

PART 1 - GENERAL

1.01 SECTION INCLUDES

Choose and keep only ONE of the following.

- A. Cold-applied asphalt cut-back dampproofing.
- A. Cold-applied asphalt emulsion dampproofing.

1.02 SUBMITTALS

- A. Product Data

1.03 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced applicator that has completed dampproofing work similar in material, design, and extent as this Project and that has resulted in a record of successful in-service performance.
- B. Acceptable Manufacturers: Provide specified products or equivalent products of manufacturers approved not less than 10 days prior to opening of bids. Submit requests for approval in accordance with procedures identified for substitutions specified in Division 1 including any Substitution Request forms and other documentation.

1.04 PROJECT CONDITIONS

- A. Substrate: Proceed with dampproofing work only after substrate construction and penetrating work have been completed.
- B. Weather: Proceed with dampproofing work only when existing and forecast weather conditions will permit work to be performed in accordance with printed recommendations in current product data.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER:

- A. Provide specified products as manufactured by **Lambert Corporation**, Orlando, FL; (408) 841-2940 or (800) 432-4746.

2.02 COLD, CUT-BACK DAMPPROOFING

*Below is solvent-based dampproofing. Delete **entire article** if EMULSION type dampproofing is desired.*

- A. Dampproofing Compound: Blended asphalts and solvents, compounded to the consistency indicated below; which will provide a moisture-resistant, vapor-resistant, pliant coating capable of achieving a perm rating of 0.02 or better.

Editorial Note: Allow contractor option to select grade of product (1st paragraph) unless design needs dictate a specific grade of product. Application method greatly affects project cost for material, labor to apply and scheduling factors that impact other trades. Where design criteria dictates a specific grade of material, delete the contractor option paragraph below and 2 of 3 selections that follow the option paragraph.

- B. Product Grade: Type required by project conditions

which allows maximum advantage, optimum coverage and minimum impact on application time. ASTM D 4586, Type I, ASTM D 4479, or ASTM D 41.

- 1. Product: **Waterban 50 series.**

- B. Trowel Grade: Heavy fibrated-type mastic compound; ASTM D 4586, Type I, containing inorganic mineral fillers and stabilizers.

- 1. Product: **Waterban 50M.**

- B. Semimastic Grade: Semifibrated type semimastic compound; ASTM D 4479 containing inorganic mineral stabilizers and filler materials.

- 1. Product: **Waterban 50SM.**

- B. Spray Grade: Nonfibrated-type liquid compound; ASTM D 41 or ASTM D 4479, without mineral fillers and fibers.

- 1. Product: **Waterban 50P.**

2.02 COLD, EMULSION DAMPPROOFING

*Below is emulsion based dampproofing. Delete **entire article** if CUT-BACK (SOLVENT-BASED) type dampproofing is desired.*

- A. Asphalt Emulsion: Asphalt-based emulsion formulated to the consistency indicated below; and when applied according to manufacturers instructions, will provide a moisture-resistant, vapor-resistant, pliant coating capable of achieving a perm rating of 0.5 or better.

Editorial Note: Allow contractor option to select grade of product (1st paragraph) unless design needs dictate a specific grade of product. Application method greatly affects project cost for material, labor to apply and scheduling factors that impact other trades. Where design criteria dictates a specific grade of material, delete the contractor option paragraph below and 2 of 3 selections that follow the option paragraph.

- B. Product Grade: Type required by project conditions which allows maximum advantage, optimum coverage and minimum impact on application time. Provide product that complies with ASTM D 1187, Type I, or ASTM D 1227, Type III or Type IV.

- 1. Product: **Waterban 60 series.**

- B. Trowel Grade: Heavily fibrated emulsified asphalt; ASTM D 1187, Type I or ASTM D 1227, Type IV, formulated with mineral-colloid emulsifying agents containing inorganic fibrous filler materials.

- 1. Product: **Waterban 60M.**

- B. Semimastic Grade: Semifibrated type semimastic asbestos-free emulsion; ASTM D 1227, Type IV, except containing nonasbestos fibrous reinforcement and filler materials.

1. Product: **Waterban 60SM.**

B. Spray Grade: Nonfibrated-type liquid asbestos-free emulsion; ASTM D 1227, Type III.

1. Product: **Waterban 60P.**

PART 3 - EXECUTION

3.01 PREPARATION OF SUBSTRATE

A. Clean substrate of projections and substances detrimental to work. Prime porous masonry surfaces and allow to dry prior to application of dampproofing.

3.02 DAMPPROOFING INSTALLATION

Delete scope provision (paragraph below) where drawings are to control location.

A. Apply dampproofing to all exterior below-grade surfaces of exterior underground walls in contact with earth or other backfill and where space is enclosed on opposite side.

B. Extend vertical dampproofing down walls from finished grade line to top of footing, extend over top of footing, and turn down minimum of 150mm (6 inches) over outside face of footing. Extend 300mm (12 inches) onto intersecting walls and footings but do not extend onto surfaces that will be exposed to view when project is completed.

3.03 EXTERIOR AND INTERIOR SURFACES

*Below is solvent-based dampproofing. Delete **entire article** if EMULSION type dampproofing is desired.*

Retain one of the following paragraphs depending on type specified in Part 2. Delete this entire article if the ?option? paragraph in Part 2 is retained.

A. Liquid/Spray Grade Application: Apply by brushing or spraying at rate of 0.5 to 0.8 L/sq. m (1.25 to 2.0 gal./100 sf.ft.), as required to produce a uniform dry film thickness of not less than 0.3 mm (12 mils).

1. Apply a second coat same as specified above, after allowing 24 hours for drying of first coat. Apply the second coat at rate of 0.3 to 0.5 L/sq.m (0.8 to 1.25 gal./100 sf.ft.). Double thickness of second coat where first coat application has failed to produce smooth, lustrous, impervious coat.

A. Semimastic Grade Application: Apply by brushing or spraying at rate of 2 L/sq.m (5.0 gal./100 sf. ft.), to produce uniform dry film thickness of not less than 0.8 mm (30 mils).

A. Trowel Grade Application: Apply by troweling onto substrate at minimum rate of 2.8 L/sq.m (7.0 gal./100 sf.ft.), to produce average dry film of 1.8mm (70 mils) but not less than 0.8 mm (30 mils) at any point.

3.03 EXTERIOR AND INTERIOR SURFACES

*Below is emulsion based dampproofing. Delete **entire article** if CUT-BACK (SOLVENT-BASED) type dampproofing is desired.*

Retain one of the following paragraphs depending on type specified in Part 2. Delete this entire article if the ?option? paragraph in Part 2 is

retained.

Retain one of following emulsions where surfaces are known to be damp (uncured concrete) or must be able to breathe for some other reason (such as a location outside of vapor retarder).

A. Liquid/Spray Grade Application: Apply by brushing or spraying at rate of 0.6 to 0.1 L/sq. m (1.5 to 2.5 gal/100 sf. ft.), as required to produce uniform dry film thickness of not less than 0.4 mm (15 mils). Apply in 2 coats if necessary to obtain required thickness, allowing time for complete drying between coats.

A. Semimastic Grade Application: Apply by brushing or spraying at rate of 2 L/sq.m. (5 gal/100 sf. ft.) to produce uniform, dry film thickness of not less than 0.8 mm (30 mils).

A. Trowel Grade Application: Apply by troweling onto substrate at a minimum rate of 2.8 L/sq.m (7.0 gal/100 sf.ft.), to produce average dry film of 1.5mm (60 mils) but not less than 0.8mm (30 mils) at any point.

3.04 INSTALLATION OF PROTECTION COURSE

Delete the following article where protection is not required. Delete "where indicated" from below if required on all dampproofed surfaces.

A. Extent: Where indicated on drawings, install protection course of type indicated over completed-and-cured dampproofing treatment.