

BITUMINOUS DAMPPROOFING

SECTION 07 11 13

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) format. The section must be carefully reviewed and edited by the architect or engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings. The specifier shall edit this document to meet the needs of the project.

Specifier Notes: W. R. MEADOWS® SEALMASTIC Emulsion is a water-based, emulsion-type dampproofing coating intended to help reduce dampness, moisture infiltration and degradation through foundation walls, parapets, fire walls, tanks, culverts, cisterns, and bridge abutments. SEALMASTIC Emulsion is also applicable for moisture-reducing above-grade decorative retaining wall applications, and below-grade concrete and unit masonry wall dampproofing.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of an emulsion-type liquid-applied dampproofing membrane.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 02622 - Foundation and Underslab Drainage.
- B. Section 03300 - Cast-in-Place Concrete.
- C. Section 07100 - Membrane Waterproofing.

1.03 REFERENCES

- A. Type I – Spray-grade dampproofing coating
 - 1. ASTM D1187 Type I.
 - 2. ASTM D1127 Type III, Class I.
- B. Type II – Brush-on or spray-grade dampproofing coating
 - 1. ASTM D1227 Type II, Class I.
- C. Type III – Trowel-grade dampproofing coating
 - 1. ASTM D1227 Type II, Class I.

1.04 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean, dry area in accordance with manufacturer's instructions.
- C. Store at temperatures of 40 degrees F (5 degrees C) and above to facilitate handling.
- D. Do not store at temperatures above 90 degrees F (32 degrees C) for extended periods.
- E. Keep away from sparks and flames.
- F. Protect materials during handling and application to prevent damage or contamination.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Product not intended for uses subject to abuse or permanent exposure to the elements.

- B. Do not apply membrane when air or surface temperatures are below 35 degrees F (2 degrees C).
- C. Do not apply to frozen concrete.
- D. Do not apply when rain is imminent.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. W. R. MEADOWS, INC., PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Website: www.wrmeadows.com.

2.02 MATERIALS

Specifier Notes: One of the following three water-based bituminous dampproofing "Types" should be selected to suit the project and contractor preference.

SEALMASTIC Emulsion TYPE I is a spray-grade and an asphalt-based, non-fibered, clay emulsion. Under normal use, it resists flow or sag and is ideal for spray operations.

SEALMASTIC Emulsion TYPE II is brush and spray-capable asphalt-based clay emulsion with the addition of fibers to provide a tight film combining both excellent strength and resistance to water.

SEALMASTIC Emulsion TYPE III is a trowel-only grade mineral colloid, asphalt emulsion with selected fibers producing a light trowel application consistency. TYPE III offers high weather, water, corrosion, and abrasion resistance and can be used as an adhesive on foam board installations.

All three SEALMASTIC Emulsion products have 0 g/L VOC content.

- A. SEALMASTIC Emulsion Type I Spray-Grade by W. R. MEADOWS.
- B. SEALMASTIC TYPE II Brush/Spray-Grade by W. R. MEADOWS.
- C. SEALMASTIC TYPE III Trowel-Grade by W. R. MEADOWS.

2.03 ACCESSORIES

- A. Reinforcement Fabric: REINFORCING FABRIC HCR by W. R. MEADOWS.
- B. Asphaltic Protection Course: PC-2 PROTECTION COURSE by W. R. MEADOWS.
- C. Rolled Matrix Drainage System: MEL-DRAIN™ Rolled Matrix Drainage System by W. R. MEADOWS.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine surfaces to receive membrane. Notify architect if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

3.02 SURFACE PREPARATION

- A. Protect adjacent surfaces not designated to receive dampproofing.
- B. Clean and prepare surfaces to receive dampproofing in accordance with manufacturer's instructions.
- C. Do not apply dampproofing to surfaces unacceptable to manufacturer.
- D. Concrete surfaces must be clean, smooth, dry and free of standing water.
- E. Patch all holes and voids and smooth out any surface misalignments.

3.03 SINGLE-PLY APPLICATION

- A. Apply Type I dampproofing emulsion at a rate of 70 to 100 square feet per gallon (1.7 to 2.5 liters per square meter). Alternatively, apply Type II and Type III dampproofing emulsion at a rate of 40 to 50 square feet per gallon (1.0 to 1.2 square meters per liter).

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3.04 HIGH-BUILD 2-PLY APPLICATION

- A. Apply Type I dampproofing emulsion at a rate of 70 to 100 square feet per gallon (1.7 to 2.5 liters per square meter). Alternatively, apply Type II and Type III dampproofing emulsion at a rate of 40 to 50 square feet per gallon (1.0 to 1.2 square meters per liter).

1. Immediately embed reinforcement fabric with a 2-inch (50 mm) overlap at all side and end laps.
2. Brush fabric for full engagement with dampproofing and allow to become firm.
3. Apply Type I dampproofing emulsion over reinforcement fabric at a rate of 70 to 100 square feet per gallon (1.7 to 2.5 liters per square meter). Alternatively, apply Type II and Type III dampproofing emulsion over reinforcement fabric at a rate of 40 to 50 square feet per gallon (1.0 to 1.2 square meters per liter).

Specifier Notes: Use of protection course or drainage panels shall be determined by the architect or specifier of record. Contact the manufacturer for alternative recommendations of compatible adhesives for the securement of the aforementioned protection and drainage accessories.
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- B. Spot-adhere drainage panels or asphaltic protection course in accordance with manufacturer's requirements. Adhere rigid insulation using Type III dampproofing emulsion.

3.05 PROTECTION

- A. Protect membrane with immediate application of protection course if no drainage system is used or rolled matrix drainage system.
- B. Backfill within 24 to 48 hours after application, using care to avoid damaging the dampproofing.

END OF SECTION