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This specification specifies **ArmorMasonry SEALER**. This product is manufactured by Marflex Waterproofing & Building Products. Revise section number and title below to suit project requirements, specification practices and section content. Refer to CSI MasterFormat for other section numbers and titles.

This specification utilizes the Construction Specifications Institute (CSI) Manual of Practice, including MasterFormat™, SectionFormat™ and PageFormat™. This is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

## SECTION 071923 SILANETRIOLATE WATER REPELLENTS

### PART 1 GENERAL

#### 1.01 SUMMARY

- A. Section Includes: Potassium Methyl Silanetriolate Water Repellents.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation, and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

- B. Related Sections:  
 1. Section 042200 – Masonry

#### 1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM):  
 1. ASTM E-514 Water Penetration Through Masonry – Average reduction in Leakage Rate - 83%
- B. National cooperative Highway Research Program:  
 2. N.C.H.R.P. Report 244 Series 2 – 77% Reduction in Chloride Ion Content

#### 1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit manufacturer's product data and installation instructions.
- C. Quality Assurance/Control Submittals: Submit the following:  
 1. Certificates: Submit certificate that applicator complies with requirements of this section.

Specifier Note: Article below should include prerequisites, standards, limitations, and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

#### 1.04 QUALITY ASSURANCE

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

- A. Applicator should follow manufacturer's installation instructions.

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 1 Product Requirements Section.

#### 1.05 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirement Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Shelf life for an unopened container is one year. Keep containers tightly sealed when not in use. Store in a dry location with a temperature range between 40 - 100°F (4 - 38°C).
- D. Protect from freezing as it may destabilize emulsion product.

#### 1.06 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Comply with application temperature range of 40 - 100°F (4 - 38°C).
- B. Surface should be completely dry. Allow at least 24 hours with sunshine for drying if the surface was wet.
- C. Do not apply if rain is expected within 3-4 hours.
- D. Do not apply during very windy conditions. High winds can cause excessive application rate.

#### 1.07 WARRANTY

- A. Manufacturer's material only warranty available.

### PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

#### 2.01 Water Repellent

Specifier Note: Paragraph below is an addition to CSI SectionFormat. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: Marflex Waterproofing & Building Products
  - 1. Contact: 500 Business Pkwy Carlisle, OH 45005, Telephone: (800) 498-1411, (513) 422-7285; Fax: (513) 422-7282
  - 2. E-mail: [info@Mar-flex.com](mailto:info@Mar-flex.com); Website: [www.Mar-flex.com](http://www.Mar-flex.com)
- B. Proprietary Products/Systems should be purchased through an Authorized Dealer of Marflex Products.
- C. Water Repellents and related products, including the following:

Specifier Note: Select method of application to suit project requirements and specify below.

1. ArmorMasonry Sealer:
  - a. Material: Water-based water repellent
  - b. Color: Milky White dries to clear, transparent film
  - c. Total Solids: 7-10% Silane
  - d. Vapor Transmission: Excellent – No Moisture retained after 21 days
  - e. Application Method: [Spray] [Brush] [Roll]
  - f. Coverage Rate:
 

i. Clay Brick	100-150 ft <sup>2</sup> /gal
ii. Concrete Cast in Place	100-150 ft <sup>2</sup> /gal
iii. Precast	125-150 ft <sup>2</sup> /gal
iv. Exposed Aggregate	100-150 ft <sup>2</sup> /gal
v. Stucco	100-150 ft <sup>2</sup> /gal
vi. Rough Stone	100-150 ft <sup>2</sup> /gal
vii. Smooth Stone	150-175 ft <sup>2</sup> /gal
viii. Concrete Block	60-90 ft <sup>2</sup> /gal
  - g. Drying Time: 4-6 hrs @ 70°F (21°C)
  - h. Full Chemical Reaction: 1-2 days
  - i. Freeze Point: 32°F
  - j. Water Penetration Through Masonry – Average reduction in Leakage Rate - 83%

**2.02 PRODUCT SUBSTITUTIONS**

- A. Substitutions: No substitutions permitted.

**2.03 LIMITATIONS**

- A. Will not prevent water infiltration through cracks, defects, or open joints.
- B. New concrete must be cured a minimum of 28 days before application.
- C. Tuck-pointing must be cured a minimum of 3 days and caulking(s) should be fully cured before application.
- D. Surface pores must be opened sufficiently to allow immediate penetration of ArmorMasonry Sealer.

**2.04 TESTING**

- A. Always test each substrate with an application of ArmorMasonry Sealer to a minimum of 3' x 3' area to check for performance, water repellency and to verify proper absorption.

**PART 3 EXECUTION**

Specifier Note: Article below is an addition to the CSI SectionFormat. Revise article below to suit project requirements and specifier's practice.

**3.01 MANUFACTURER'S INSTRUCTIONS**

- A. Comply with the most current written installation instructions and recommendations of the waterproofing manufacturer.

**3.02 EXAMINATION**

- A. Site Verification of Condition:
  - 1. Verify that site conditions are acceptable for application of the waterproofing system.
  - 2. Do not proceed with application until unacceptable conditions are corrected.

**3.03 PREPARATION**

- A. Surface Preparation:
  - 1. If absorption test failed, cleaning of the substrate may be necessary. See manufacturer for detailed cleaning procedures.
  - 2. Remove all traces of curing compounds.
  - 3. Concrete surfaces should be cleaned and free of dirt, oil, grease, and other contaminants.
  - 4. Cover and protect all glass, aluminum, metal, grass, shrubs, plants, and vegetation from overspray of the ArmorMasonry
  - 5. Agitate ArmorMasonry Sealer before application.
  - 6. Do not dilute product.

**3.04 APPLICATION**

- A. For vertical application [Spray] [Broom] [Roll]
  - 1. Apply a single application of the ArmorMasonry Sealer with low pressure spray equipment (15 psi or .1 MPa) roller or broom.
  - 2. Use a fan spray nozzle for greatest efficiency, mist spraying will only waste material.
  - 3. Apply material from the bottom of the wall upwards so that it will run down the surface at least 6 inches (15cm) below the spray pattern.
  - 4. For porous vertical substrates or for maximum protection, apply two "wet-on-wet" applications of SurfSeal.
- B. For horizontal application [Spray] [Broom] [Roll]
  - 1. Material should be sufficiently applied to completely flood the surface; approximately 125 ft<sup>2</sup>/gal (3 M<sup>2</sup>/L) depending on the porosity of the surface.
  - 2. Typically, the surface can be re-opened to traffic in 4-6 hours if the temperature is 70°F (21°C) or above. Full chemical reaction will take 1-2 days.

**3.05 CLEANING**

- A. Equipment – Clean with soap and water.
- B. Adjacent construction – Clean using soap and water before dry.