

## TECHNICAL DATA

**DESCRIPTION:** **US Masonry Coating** is a two component polymer modified portland cement based water-proof coating. Liquid polymer blends with Portland cement based mortar to produce a water-proof masonry coating suitable for filling and sealing concrete, masonry and brick structures. The liquid polymer adds tensile, bond and flexural strengths while also enhancing resistance to water penetration from positive and negative pressure.

**USE ON:** Masonry and concrete foundation walls, retaining walls, manholes and sewers, interior and exterior masonry and concrete substrates

- ADVANTAGES:**
- High bond strength
  - Fills and seals masonry and concrete substrates
  - Easy mixing with pre-measured units
  - Easily applied with masonry brush
  - Excellent finishing characteristics
  - Very low permeability

### 28 DAYS

|  |                         |
|--|-------------------------|
| <b>Compressive Strength</b><br>(ASTM C 39)       | 6500 psi<br>(44.82 MPa) |
| <b>Bond Strength</b><br>(ASTM C 882 Modified)    | 500 psi<br>(3.45 MPa)   |
| <b>Flexural Strength</b><br>(ASTM C 293)         | 1800 psi<br>(12.41 MPa) |
| <b>Splitting Tensile</b><br>(ASTM C 496)         | 700 psi<br>(4.83 MPa)   |
| <b>Water Vapor</b><br>Transmission, Perms @ 6 mm | 3-7                     |

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**SURFACE PREPARATION:**

Remove all dirt, grease, oil, laitance and curing compounds from masonry, concrete, mortar and stone substrates by sand blasting or mechanical roughening. In case of application to metallic surfaces, remove grease, oil, rust and loose mill scale by sandblasting or wire brushing. The use of a high pressure power washing equipment is suggested to assure the thorough removal of all dirt, grease, oils, paints and potential surface laitance. For heavy surface contamination the use of a degreaser may be required.

**MIXING:**

Shake Component A well and pour 1/2 of A Component into mixing container. Add Component B while mixing with a mechanical mixer such as a low speed power drill (300 to 600 rpm) with a mixing paddle or other suitable mixer to achieve a homogeneous mix. Mix to a uniform paste, then add the necessary amount of the A Component to bring to the desired consistency. For proper mixing always use mechanical means, do not mix by hand. **US Masonry Coating** can be mixed to differing consistencies (liquid to slurry) depending on the application. Be sure the mortar is mixed thoroughly to a uniform consistency. For best results, apply to a clean, sound surface. After cleaning, dampen surface. Do not saturate with water. Maintain damp surface throughout application. When applying as a coating use a masonry brush, hopper gun, or plasterer's gun. If spray applying by mechanical means, after spraying, work the material into the surface with a brush or broom to ensure all voids have been filled. After two hours of curing, apply a second coat in the opposite direction of the first coat.

**APPLICATION:**

When mixed with less than 2 gallons of Component A (liquid) the material can be applied at up to 65 mils in one pass. Use mechanical application equipment such as particle grout pump or progressive cavity pump to apply the **US Masonry Coating**, in slurry form, to the properly prepared substrate. After mechanical application, it is strongly recommended that the material is worked into the surface using a masonry brush to assure that all voids have been properly filled. After mixing 2 gallons of Component A and 50lbs of Component B, up to 64 ounces of potable water can be added to adjust the material consistency. A second coat can be applied after 2 hours of curing. When applying a second coat be sure to apply in the opposite direction of the initial coat. Surface temperature must be a minimum of 35°F and rising when applied. Consideration for compaction around reinforcing steel. Finish the final surface as required.

Available in complete ready to use units (2 gallons - Component A and 50 lbs-Component B). Each fully mixed unit of material will cover approximately 120 to 700 square feet depending on thickness of application. Actual coverage may vary due to surface texture and density.

**LIMITATIONS:**

US Masonry Coating should be used when ambient temperatures are 40°F (4°C) and rising. Lower temperatures produce a slower set; higher temperatures produce a faster set. For temperatures below 40°F (4°C) consult with the manufacturer for special cold weather placement provisions which include but are not limited to conditioning of the materials, use of heated mix water and thermal protection. In hot weather use chilled water for mixing.

**PACKAGING:**

**US Masonry Coating** is packaged in 50 lb (22.72 kilo) Kraft multi-wall, polyethylene lined bags and 2 gal (7.6 L) pails.

**CAUTION:**

**WARNING! CONTAINS FREE SILICA & PORTLAND CEMENT. DO NOT BREATHE DUST.** May cause delayed lung injury (silicosis). Follow OSHA safety and health standards for crystalline silica (quartz). Cement powder or freshly mixed concrete grout or mortar may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into the eyes, rinse immediately and repeatedly with water and get prompt medical attention.