



Exterior Below-Grade Commercial Bentonite Waterproofing System

ArmorClay Mastic Adhesive

Description

ArmorClay Mastic Adhesive is a water-based acrylic adhesive containing 15-20% emulsified bentonite. It is soft/malleable for an easy application with either a trowel or putty knife from a bucket. ArmorClay Mastic will cure to form a strong bond to concrete, ArmorClay600, 1000 and 1500 waterproofing membranes, ArmorClay Waterstop and woven or non-woven materials.

Uses

ArmorClay Mastic Adhesive has multiple applications. It is used to fill cracks and voids in walls and pipe penetrations, to fill inside corners between vertical and horizontal transitions, to fill voids and adhere ArmorClay WaterStop to construction joints, and to seal the seams in ArmorClay600, 1000 and 1500 waterproofing membranes. ArmorClay Mastic Adhesive will cure to form strong adhesive barrier in these applications. For static construction joints in concrete footings, walls, floors, tunnels, parking and plaza decks. ArmorClay Adhesive seals and bonds ArmorClay WaterStop in place, filling voids in the concrete surface while preventing displacement of the ArmorClay sheets during the concrete pour.

Installation

For complete installation guidelines, please contact your sales Representative, call Mar-flex at 800-498-1411 or visit our website at www.Mar-flex.com for details.

ArmorClay600, 1000 and 1500 Seam: On difficult projects, particularly shotcrete or lagging, ArmorClay Mastic Adhesive will protect ArmorClay600, 1000 or 1500 Seams from damage by the Shotcrete. Lay a $\frac{3}{8}$ " to $\frac{1}{2}$ " bead of ArmorClay Mastic Adhesive under the seam. Press the waterproofing membrane into the uncured Adhesive and fasten every 8" (20 cm) o.c. with staples ($1\frac{1}{4}$ " crown and $\frac{3}{4}$ " legs or 3 cm crown and 2 cm legs). Add a $\frac{3}{8}$ " to $\frac{1}{2}$ " bead of ArmorClay Mastic Adhesive to the joint and spread 1" on both sides

ArmorClay WaterStop: Examine all surfaces prior to starting application. Dust may be present; however all debris and standing water must be removed.

Installation may proceed on uncured or damp surfaces. If surface is smooth, lay a $\frac{1}{8}$ " to $\frac{1}{4}$ " bead of ArmorClay Mastic Adhesive along the joint. If surface is irregular, knock down protrusions greater than $\frac{1}{2}$ " and use ArmorClay Mastic Adhesive to fill any voids. Press ArmorClay WaterStop into uncured Adhesive and nail every 15" (38 cm) o.c. with powder-actuated or hand-driven concrete nails (1" or 2.54 cm shank) with washer ($\frac{5}{8}$ "- $\frac{13}{16}$ " or 15-23 mm). Butt ends and fill the gap between adjacent pieces for a continuous application.

Packaging

5 gallon buckets-sold each, 2 gallon pails-sold each and 30 oz. caulking tubes-sold 9 per box.

Storage

Protect from moisture. Store on skid or pallet, cover with polyethylene or tarp. Do not freeze.

Availability

Available world-wide through authorized Mar-flex distributors. Contact us for details.

Limitations

Keep ArmorClay Mastic Adhesive protected from the elements and from freezing. When cured, ArmorClay Mastic Adhesive is resistant to most contaminants in soil. Please contact Mar-flex for compatibility testing.

Limited Warranty

Mar-flex warrants its products will be delivered free of defects in materials and workmanship. Mar-flex will replace the material or refund the purchase price. Mar-flex makes no other warranty, including an implied warranty of merchantability or fitness for a particular purpose. Mar-flex shall not be liable for any other loss or damage. Contact Mar-flex to discuss specific details for extended warranty periods.

HEALTH AND SAFETY INFORMATION IS GIVEN IN THE SAFETY DATA SHEET (SDS) AND THE PRODUCT DATA SHEET AVAILABLE FOR THIS PRODUCT. THESE SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.



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ArmorClay Mastic Adhesive

| ArmorClay Mastic Adhesive Typical Physical Properties | | |
|---|------------------------|--|
| Property | Method | Results |
| Color | | Grey/White |
| Odor | | Mild |
| Uncured: | | |
| Flow, Sag, Slump | ASTM 2202 | 10 cm |
| Specific Gravity | | 1.1 |
| Sodium Bentonite | | 15-20% by weight (1.3 lbs per gal of water) |
| Solids by Weight | | 40% |
| VOC | ASTM D3960-92 | None - Solvent Free |
| Tack Free Time | Field Testing | 30 mins |
| Full Cure Time | | 12 to 24 hrs |
| Installation Temperatures | ASTM D746 | 32°F to 120°F (0°C to 50°C) |
| Clean up | | Soap and Water |
| Cured: | | |
| Adhesive Strength | ASTM D1004 | 25 lbs (100 N) |
| % Elongation at Break | ASTM D412 | 125% |
| Hardness | ASTM D2240 Procedure A | ~90 Shore A |
| Unrestricted Expansion | | 100% |
| Absorption | | 175% |
| Resistance to Hydrostatic Head | ASTM D751 Procedure A | 100 ft. (30 m) of water* |
| Vapor Permeability | ASTM D5084 | 1 x 10 ⁻⁹ cm per sec |
| Functional Temperatures | ASTM D746 | -15°F to 120°F (-25°C to 50°C) |