

SECTION 07 14 00

FLUID APPLIED WATERPROOFING

SECTION 09 34 00

WATERPROOFING-MEMBRANE TILING

See attached sheet for options

Multicoat Underlayment System

This guide specification has been prepared by Multicoat Product Systems, in printed and electronic media, as an aid to specifiers in preparing written construction documents for a cold-fluid applied elastomeric waterproofing membrane. The MULTICOAT UNDERLAYMENT WATERPROOFING SYSTEM is a multi-layer protective coating which combines an elastomeric waterproofing membrane, BG2000, with resin modified cementitious top coating, MULTI-BASE. This system is designed as a underlayment waterproofing material to be topped with lightweight concrete, hard rock or similar materials for balconies and walkways. It can be applied to plywood, OSB, concrete and most other surfaces in need of waterproofing.

This guide specification intended use is for multiple applications. Delete the section and tile not applicable. Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these notes before final printing of specification.

This guide specification is written around the Construction Specifications Institute (CSI) Section Format standards.

For specification assistance on specific product applications, please contact our offices or any of our local product representatives throughout the country.

Multicoat Product Systems reserves the right to modify these guide specifications at any time. Updates for this guide specification will be posted on the manufacturer's web site and/or in printed matter as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

1.GENERAL

1. RELATED DOCUMENTS

- A. Drawings and other Contract Documents, listed in the agreement between the Owner and Contractor, apply to this Section.

2. RELATED SECTIONS

- A. 06 16 30 – Wood Underlayment Materials
- B. 09 67 00 – Fluid Applied Flooring
- C. 03 50 00 – Cementitious Decks and Underlayment

3. SUMMARY

- A. Section includes an elastomeric waterproofing membrane combined with resin modified cementitious top coating for underlayment applications.

4. SUBMITTALS
 - A. Product Data:
 1. Submit manufacturer's descriptive literature and product specifications for each product.
 2. Submit laboratory tests or data that validate product compliance with the performance criteria specified.
5. QUALITY ASSURANCE
 - A. Installer Qualifications:
 1. Acceptable to manufacturer with documented experience on at least 2 projects of similar nature in past 2 years and/or training provided by the product manufacturer.
 - B. Manufacturer Qualifications:
 1. Company specializing in manufacturing Products specified in this Section with minimum **[10]** years documented experience.
6. DELIVERY AND STORAGE
 - A. Deliver, store off the ground and covered, handle and protect products from moisture in accordance with manufacturer's instructions.
 - B. Deliver materials in manufacturer's unopened containers, fully identified with brand, type, grade, class and all other qualifying information. Provide Material Safety Data Sheets for each product.
 - C. Take necessary precautions to keep products clean, dry and free of damage.
7. WARRANTY
 - A. Materials are guaranteed with respect to uniformity and quality within manufacturer's specifications.
8. PROJECT CONDITIONS
 - A. Do not apply if substrate temperature is below 40°F or above 100°F, or if ambient temperature below 40°F above 100°F.
 - B. Do not apply if precipitation is expected within a twenty four (24) hour period.

2.PRODUCTS

1. MANUFACTURER
 - A. Multicoat Corporation 23331 Antonio Parkway, Rancho Santa Margarita, CA 92688, 877-685-8426, Email: info@multicoat.com, www.multicoat.com

2. MATERIALS

Underlayment waterproofing system is a multi-layer protective coating which combines an elastomeric waterproofing membrane, with resin modified cementitious top coating. This system is designed as an underlayment waterproofing material to be topped with lightweight concrete, hard rock or similar materials for balconies and walkways. It can be applied to plywood, OSB, concrete and most other surfaces in need of waterproofing.

A. MULTICOAT BG2000 Elastomeric Waterproofing Membrane

1. Tensile Strength & Elongation: 119.6 psi / Elongation 1494.5% (ASTM-D2370)
2. Tensile Bond Adhesion, PSI: 162 Cohesive (ASTM C297)
3. Low Temperature Flexibility: ½" Room Temp Pass (ASTM D522)
(Mandrel Bend) 1" @ -5F Pass
½" @ -5F Pass
4. Static Hydrostatic Pressure Test: Pass >45psi (ASTM C1306)
5. Hydrostatic Head: 12" Water/Film @ 40mil Pass 96 hour/no effect

3. ACCESSORY MATERIALS

- A. Concrete Repair: MULTICOAT SPEED MIX 2000 is a fast setting, resin modified, hydraulic cement. It is used by itself for most types of concrete repair such as leveling, filling cavities and cracks. Can be used interior or exterior, vertical, horizontal or overhead.
- B. Concrete Crack Repair: MULTICOAT SPEED BOND CRACK REPAIR SYSTEM is unique two component water based polyurethane material. SPEED BOND is used to repair cracks, holes, and depressions prior to the application of various Multicoat Systems. SPEED BOND is a two-part material packaged in a standard caulking tube which does not require any special tools.
- C. Water: Potable.

3.EXECUTION

1. EXAMINATION

- A. Examine substrates and adjoining construction, and conditions under which Work is to be installed. Do not proceed with Work until unsatisfactory conditions are corrected.
- B. Verify the following substrate conditions before application of waterproof lining:
 - 1. That substrate condition is satisfactory and in accordance with manufacturer's instructions.
 - 2. That concrete surfaces are free of voids, spalled areas, loose aggregate and sharp protrusions, and with no coarse aggregate visible.

2. PREPARATION

- A. Substrate must be structurally sound and free from grease, oil, dirt, dust, sealers, water repellents and other foreign materials which may interfere with proper bonding.
- B. Plywood/OSB substrate: Moisture content should be below 15%. Use moisture meter to check. All above grade decks should be properly vented, sloped and flashed, including tongue and groove plywood/OSB, must be 5/8" minimum thickness, 16" minimum support spacing, edges blocked, all fastened with 8 penny ring shank nails or equivalent, on maximum 6" centers. Plywood and OSB must be nailed on all four edges. All flashing and joints must be caulked with a polyurethane caulking or like product prior to application of BG2000.
- C. Concrete substrate: Repair cracks with Multicoat Speed Bond Crack Repair material. (See Instruction Sheet) All holes, or voids, need to be filled with Multicoat Speed Mix Hydraulic Cement. (See Instruction Sheet)

3. APPLICATION

- A. General: Comply with waterproofing manufacturer's written instructions for application and curing.
- B. Coverage: BG2000: 35-45 sq. ft. per gallon when sprayed at 60 Mil thickness.
- C. PLYWOOD: Apply BG2000 over entire area in two coats with brush, roller, airless sprayer or hopper gun. Allow first coat to dry to touch, usually 1-2 hours depending on ambient air temperature. Apply second coat in a crisscross pattern to first coat. Immediately broadcast sand into the 2nd coat of BG2000 while it is still wet. After product has dried completely, brush off loose sand from the substrate.

- E. CONCRETE: Apply BG2000 over entire area in two coats with brush, roller, airless sprayer or hopper gun. Allow first coat to dry to touch, usually 1-2 hours depending on ambient air temperature. Apply second coat in a crisscross pattern to first coat.
- F. Once the BG2000 has dried continue with wearing surface installation.
- G. Light Weight Concrete, Brick, Stone, Tile can be mortared and set directly onto BG2000
- H. NOTE: Be careful not to puncture deck surface when applying finish material as this will compromise the waterproofing membrane and cause leaks.
- I. DO NOT ALLOW BG2000 TO BE EXPOSED FOR MORE THAN 24 HOURS.
- J. DO NOT ALLOW BG2000 TO GET WET DURING INSTALLATION OR DRYING.

END OF SECTION 071400