

GUIDE SPECIFICATION DECK REHABILITATION SYSTEM

SECTION 7 - MOISTURE CONTROL

PART 1 - GENERAL

1.01 SCOPE:

Provide LM-85 self leveling, two component pourable asphalt modified urethane base coat and 650 sheet membrane waterproofing as indicated and as specified, complete; including principal items:

- A) Horizontal: _____
B) Other: _____

1.02 RELATED WORK IN OTHER SECTIONS:

- Concrete Work: Section _____
- Flashing: Section _____
- Prefabricated Expansion Joints: Section _____
- Sealants and Caulking: Section _____
- Dampproofing: Section _____
- Drains: Section _____
- Drainage Boards: Section _____
- Insulation: Section _____
- Pedestals: Section _____
- Pavers: Section _____

1.03 SUBMITTALS:

Submit the following samples for approval:

- A) One square foot sample of **650 WATERPROOFING MEMBRANE**.
B) One gallon of **LIQUID MEMBRANE 85-SL**.
C) One gallon of **LIQUID MEMBRANE 95**.
D) One tube of **650 MASTIC**.
E) One ft² sample of **PROTECTION BOARD** (unless membrane has built in protection board).

Submit copies of manufacturer's product description, product usage, and product application for all materials proposed for use on the project.

1.04 DELIVERY, STORAGE, AND HANDLING:

Materials should be delivered in manufacturer's original, unopened packaging with labels attached.

All materials must be handled and stored in a manner to prevent damage. Any material damaged must be removed from the project area and replaced with new material.

Products must be stored and handled in accordance with manufacturer's guidelines. **650 MASTIC** is solvent based and are flammable. No open flames, sparks, or smoking is allowed in the immediate area.

PART 2 - PRODUCTS

2.01 MANUFACTURERS / PRODUCTS:

- A) Refer to Division 1 General Requirements for alternate procedures, requirements, and description.
B) Base Bid: **POLYGUARD PRODUCTS, INC. / DECK REHABILITATION SYSTEM**



This Information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.

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As of 9/1/2003, Polyguard Products' quality system has been certified to American, Dutch, and German quality systems requirements:
- American Natl. Standards Institute
- Dutch Council for Certification
- Deutscher Akkreditierungs Rat

PART 3 - EXECUTION

3.01 JOB CONDITIONS:

Application of Deck Rehabilitation and Waterproofing System materials should not be done unless surface and ambient conditions are over 25°F (-4°C) and rising. There should be no frost on the concrete substrate.

LIQUID MEMBRANE 85 SL and LIQUID MEMBRANE 95 should be stored in a warm area prior to application (approximately 70°F). Part B activator on both should never be allowed to freeze.

All new cementitious surfacing must have proper cure time as noted by manufacturer of said product. All drains, curbs, and protrusions must be in place before waterproofing application begins.

Surfaces to receive the Deck Rehabilitation System materials should be clean, dry and free of dust, dirt, loose aggregate or other foreign materials. All non-adhered waterproofing coating should be removed by scraping and/or water blasting. *All horizontal surfaces must slope towards drainage.* All voids and spalled areas must be filled with **LIQUID MEMBRANE 85 SL** prior to application of **650 WATERPROOFING MEMBRANE**. Surfaces must be free of contaminants from release agents that contain wax, oil, silicone, or pigment.

3.02 DECK REHABILITATION SYSTEM INSTALLATION - HORIZONTAL SURFACES:

- A) All pipe penetrations, inside and outside corners shall be treated with 12" wide by 90 mil thick application of **LIQUID MEMBRANE 95** prior to application of **650 WATERPROOFING MEMBRANE**. Apply by trowel or putty knife.
- B) All inside corners shall have a minimum 3/4 inch fillet of **LIQUID MEMBRANE 95** prior to application of **650 WATERPROOFING MEMBRANE**. Apply by trowel or putty knife.
- C) **LIQUID MEMBRANE 85-SL** should be mixed on the jobsite according to label instructions. Note that the "pot life" of this material is limited, averaging 45 minutes at 70°F., depending upon temperature and humidity conditions. After this period the material will become too hard to apply and should be discarded.
- D) Concrete should **not** be primed prior to application of **LIQUID MEMBRANE 85-SL**.
- E) **LIQUID MEMBRANE 85-SL** should average 60 mils thickness or 25 ft² (2.3m²) per gallon coverage, depending upon job and surface conditions. Apply by squeegee. **LIQUID MEMBRANE 85-SL** should be allowed to cure overnight. The material will act as a temporary waterproofing membrane once cured.
- F) **LIQUID MEMBRANE 85-SL** should be kept dry, clean and debris free for application of the **650 WATERPROOFING MEMBRANE**.
- G) **650 WATERPROOFING MEMBRANE** should be applied starting at the low point and working to the high point in a shingling technique.
- H) Side laps should be a minimum of 2 ½ inches and end laps a minimum of 6 inches.
- I) Entire membrane should be firmly rolled with a linoleum roller weighing approximately 75 pounds. This will insure excellent adhesion and minimize air pockets between the **LIQUID MEMBRANE 85 SL** and the **650 MEMBRANE**.
- J) At drains contact manufacturer due to variations and applications.
- K) Membrane turned up on walls shall be terminated into a reglet or under a counter flashing. The membrane may also be pressed firmly to the wall, then sealed with a trowelled bead of **650 MASTIC**.
- L) Inadequately lapped seams and damaged areas should be patched with small sections of **650 MEMBRANE**. The patch area should extend at least 6 inches beyond the defect.
- M) Fishmouths and severe wrinkles should be slit, flaps overlapped, and repaired as above.
- N) At completion of **DECK REHABILITATION SYSTEM**, flood test the surface with 2 inches of water for 24 hours. Check with the structural engineer to make sure the deck structure will withstand the flood test.
- O) Mark any leak areas found during flood test and make repairs.

3.03 PROTECTION AND DRAINAGE SYSTEM:

- A) Horizontal surfaces shall use **ASPHALTIC PROTECTION BOARD** furnished by membrane manufacturer. 1/8" thickness may be used for light duty surfaces, 1/4" thickness for normal duty surfaces.
- B) Drainage systems, if required, shall be as furnished by the membrane manufacturer.