

ARCHITECTURAL SPECIFICATIONS

RUB-R-WALL® AQUA WATERPROOFING MEMBRANES

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PART 1. FLUID APPLIED, 100% RUBBER POLYMER WATERPROOFING

1.01 SCOPE

A. The scope of work includes, but is not limited to the following:

1. Fluid-applied, 100% rubber polymer membrane as sub-grade foundation waterproofing.

1.02 REFERENCES

A. ASTM D-412	Rubber Properties: in Tension
B. ASTM D2240	Rubber Properties: Durometer Hardness
C. ASTM C836	Crack Bridging & Low Temperature Flexibility
D. ASTM D95	Liquid Water Absorption
E. ASTM E96-72	Water Vapor Permeance
F. ASTM D2020	Resistance to Fungus
G. ASTM GT29-75	Resistance to Algae
H. ASTM D4299-83	Resistance to Bacteria
I. ASTM E154	Resistance to Degradation in Soil
J. ASTM D466	Resistance to Re-emulsification
K. ASTM D2939	Adhesion Loss
L. NRCA	Waterproofing Manual
M. ASTM D2938, Sec 15	Resistance to Water, Blistering And/Or Re-emulsification
N. TT-C-5558	Ability to Resist Hydrostatic Pressure Over Non-Structural Cracks
O. CGSB37-GP-52M Section 7.2.10	Resistance to Dynamic Impact

1.03 MANUFACTURER

- A. All waterproofing membrane products as referred to in this specification are as manufactured by RPC, Inc. (Rubber Polymer Company, LLC), Cumming, GA, herein referred to as RPC.

1.04 MATERIALS

- A. All membrane materials referred to in this section are 100% rubber polymer products that yield an asphalt-free, highly elastic, seamless waterproofing membrane.
- B. All membrane materials shall be certified by the manufacturer that they meet or exceed the manufacturer's specifications.
- C. Waterproofing products as manufactured by RPC are intended for use according to the following schedule:

1. *Rub-R-Wall Aqua Waterproofing*

- a. All sub-grade foundation applications on new construction substrates such as concrete, masonry and ICF forms. Rub-R-Wall Aqua may be applied to other substrates provided approval is obtained from the manufacturer.
- D. All membrane materials are to be delivered to the job site in either 55-gallon drums or in self-contained tanks which are an integral part of the spray unit. Mastics are supplied in 5-gallon units and are used with bulk gun or trowling knife.

E. The use of a protection course is not generally required for Rub-R-Wall Aqua. However, if specified, all protective, insulation or drainage media that become an integral part of the membrane system must meet the approval and acceptance of RPC. Alternative products must be submitted according to Section 1.06. Protection fabrics, sheetings and boards may be one of, or a combination of several products such as the following:

1. Standard closed-cell extruded polystyrene foam boards such as manufactured by Kingspan, Dow, Owens Corning or other RPC approved equal. These boards should not be used if the thickness is 1/4" or less and are perforated. Manufacturer recommends the use of a board 1/2" or greater in areas where local codes require exterior insulation. Membranes must be totally cured before installing.

1.05 SUBMITTALS

- A. An "Approved Course List" issued by RPC is available.
- B. All submittals for alternative products or products not listed herein which are to be used as an integral part of the membrane system and requiring RPC approval as provided for this specification shall be done so through the project engineer requesting approval by submitting such for approval prior to installation to the following:

RPC
5760 County Line Road
Cumming, Georgia 30040

PART 2. EXECUTION

2.01 APPLICATION OF RUB-R-WALL AQUA MEMBRANES

1. Preparation

- a. Footers must be clean and free of dirt, sand, soil or any other deleterious materials that would prevent full adhesion of the rubber membrane. Footers must be dry and free of any visible water. Any water present must be removed and the substrate dried.
- b. Concrete walls must be free of voids and honeycomb. Any such areas, if present, must be repaired by standard methods using a cementitious grout. Form ties must be removed inside and outside below the concrete surface such that the membrane will not possibly be punctured. Minor surface defects such as entrapped air holes and tie holes may be repaired by using Rub-R-Wall Aqua Mastic.
- c. Concrete walls may be sprayed 24-48 hours after the form stripping process is complete, provided any excess water or moisture due to subsequent rains, etc., is not present.
- d. Concrete walls must be smooth and free of projections and other foreign material such as organic matter, asphalt, or other frozen material.
- e. Medium or high-density concrete masonry must be parged. Repair to voids must be done at least 24 hours prior to membrane application. If the masonry cores are to be filled, this must also be done prior to the application. The fresh core fill must be cured before the Rub-R-Wall Aqua application.
- f. Brick ledges and buttress walls constructed from masonry must be capped prior to application of the membrane.
- g. Check all wall penetrations to ensure that they are secure and in the correct and final position, then treated with Rub-R-Wall Aqua Mastic before coating the substraight.

2. Application

- a. Aqua products should not be sprayed when the ambient temperature is below 40° F.
- b. Spray equipment must meet the minimum standards as set forth by **RPC**.
- c. Wear only approved safety equipment as specified by all the applicable safety regulations. All standard safety procedures are to be followed.

- d. Proceed to apply the waterproofing membrane in accordance with RPC standards. Application should be made in multiple, uniform passes such that a wet membrane thickness of 60-80 mils is obtained as determined by a standard mil gauge. A cured thickness of 30--40 mils will result. When additional membrane thickness is required allow a minimum cure time between applications of 2 hours before proceeding with additional application to the specified mil thickness. Typically, the coverage rate should be 25-30 SF/gal on masonry walls and poured walls.
- e. Spray the top of the footer 3" away from the wall. It is not desirable to spray the entire top surface of the footer. Continue the membrane up the wall to a minimum height of 6" above the final grade line or a previously determined elevation.
- f. After completion of various sections of the wall, check for thin spots and voids. Re-Spray any such areas as necessary to obtain proper mil thickness.
- g. If an insulation drainage course is specified, allow a cure time of approximately 24 hours (depending on ambient temperature and humidity) before application by mechanically fastening or the use of a spray adhesive. Do not overlap protection boards. Geotextiles should overlap 3".
- h. Footer drains must be installed in accordance with standards. Downspouts must be tiled separately from the footer drains.

-END TEXT-