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Concrete Pond Application with Rubber Coat or Pond Coat

Objective: To achieve a nominal 80 dry mil thick membrane.
Application rate is 8 gallons per 100 square feet.

General:

The following is a general application procedure for Rubber Coat or Pond Coat when applied as a membrane for waterproofing a concrete pond. Each project will have special conditions and these should be identified and addressed separately from this general procedure. For any detail not covered in this application procedure, please contact PermaDri Inc. before proceeding.

Material Required:

Rubber Coat or Pond Coat: 8 gallons for every 100 square feet of surface area to be coated. An additional gallon of material is required for every 30 linear feet of detail work.
Tietex Polyester Fabric: Enough 6” wide fabric to cover the total linear feet of detail work.

Note:

This is an industrial waterproofing coating, not an aesthetic coating. Once submerged in water the coating’s color will vary from black to brown. For best results this coating should be installed by a licensed waterproofing contractor familiar with water based coatings. Before attempting this application read the full procedure below.

Inspection:

Prior to commencement of work, a thorough inspection of the concrete surface should be carried out to confirm the following:

1. If outlet drains, all areas should maintain positive drainage.
2. Soundness and correctness of pipe and other penetrations. Dual penetrations must be a minimum of 2 inches apart.
3. Concrete is completely void of effervesce, chemicals, oils or sharp edges.

Step 1: Preparation and First Coat

The coating must be installed on a clean, dry and structurally sound surface and free of loose or foreign material, dirt, grease or other materials or debris that may damage the membrane.

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1. Remove all concrete sharps, fins and other irregularities. Patch concrete surface using quick drying polymer cement compatible with the coating to fill void spaces. Let concrete dry. All voids/cracks 1/16th of an inch or greater must be 3-coursed with Rubber Coat and fabric. (See 3rd bullet point below for application details.)

2. Coat any large bug holes.

3. Brush or roll coating 6-8 inches wide into all angles. Embed polyester fabric* into wet coating and press into place to completely saturate polyester fabric. Brush or roll a thin layer of coating over polyester fabric extending 2-4 inches past existing coating. Allow coating to dry to the touch prior to first field coat of pond area.

4. All pipe penetrations must be reinforced with polyester fabric. Brush or roll coating around base of pipe, 4 inches up pipe and 4 inches onto deck. Embed/wrap pipe with polyester fabric into wet coating and press into place to saturate polyester fabric. Brush or roll coating over polyester fabric extending 2- 4 inches past applied coating. Allow coating to dry to the touch prior to first field coat of pond area.

5. After coating has dried to the touch on all prep work, brush or roll coating over entire concrete pond in one direction starting at lowest point and working to highest point of flat area and beginning at bottom of vertical walls and working to top of vertical walls at the rate of 20-25 wet mils. Note: if sides are too high to reach from the top start with sides first and then the bottom working to an area to exit pond via ladder. (Use wet mil gauge to insure proper thickness) Allow coating to dry to the touch prior to second coat.

Step 2: Applying multiple layers of Coating

1. Make sure applied material is free of dust, debris, and/or any other material that will damage the membrane.

2. Brush or roll coating over entire pond in opposite direction of first coat at the rate of 20-25 wet mils. (use wet mil gauge to insure proper thickness) Allow coating to blacken/dry to the touch prior to applying next coat. Continue in like fashion until 134 wet mils are achieved over entire pond.

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3. It may take up to 5-7 coats to achieve the correct thickness. Apply additional coats once applied coating is dry enough that it does not stick or lift up onto brush or roller when applying. This will provide a good bond between layers. Before filling pond, use a 2-pronged moisture meter to make sure installed membrane has cured to 12% or lower moisture content. Make sure to check moisture content both on surface and at substrate. Coat over holes made by moisture probes with a layer of coating.

Note: Curing time depends on weather conditions. A minimum of 36-72 hours cure time is normally required with 70ºF and rising temperatures and 50% or less humidity. The use of fans and heaters can assist cure times. Use moisture meter to confirm coating is cured before filling pond.

Note: When building thickness use multiple coats on vertical walls to avoided sagging of material, let material cure between coats. When applying multiple layers and extended periods of time have elapsed between each coat; heat, time and pressure may be required to create a monolithic membrane.

Note: If membrane is punctured, repair with a layer of coating and embed with polyester fabric (if needed) and cover with an additional layer of coating.

Note: As with all water based coatings blistering can occur during application. Blisters should be left alone and allowed to dissipate during the curing process.

Nature of Concrete: Blistering can occur during application due to trapped moisture, curing compounds or any substance that has been added or topically spilled on the concrete. Due to the nature of concrete, should these unavoidable conditions arise and lack of adhesion and blisters occur, the coatings manufacture is not responsible for these potential issues. Blisters may need to be mitigated during and after the application process if they do not subside in a timely manner.

Note: This is an industrial waterproofing coating, not an aesthetic coating. Once submerged in water the coating's color will vary from black to brown.

***Polyester recommendation: TieTex T272 fabric**

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