METHOD OF STATEMENT FOR APPLICATION OF MYPROOF EXPOSE WPF LIQUID APPLIED, REINFORCED FIBRE ACRYLIC WATERPROOFING COATING WITH MYPROOF FLEX WP

Purpose

1.1 The purpose of this document is to establish uniform procedures for applying Myproof Expose WPF liquid applied Reinforced fiber acrylic waterproofing system with Myproof Flex WP.

1.2 The techniques involved may require modifications to adjust to job site conditions. Consult you Mychem representative for specific design requirements.

2. Scope

2.1.1 This document will provide the necessary instruction for the application of the Myproof Expose WPF liquid applied Reinforced fiber waterproofing system with Myproof Flex WP to qualify for the manufacturer's warranty.

3. Substrate Condition and Surface Requirements

3.1 Concrete shall be water cured and in place for at least 14 days, preferably for 28 days.

3.2 New concrete shall be finished with a light trowel finished or broom finished. Over-troweled slab are not acceptable and shall be mechanically prepare of concrete substrate to minimum ICRI CSP #1 to #3 profile for sealers, coatings and thin-film coating application.

3.3 Surface shall be structural sound, solid, stable, level and free of void, bug holes, rock pocket, honeycomb, protrusions, excessive roughness which may inhibit application of the waterproofing coating.

3.4 Surface to receive cementitious coating shall be clean and free of all dirt, dust, oil, grease, wax, tar, mildew, mold, paint, sealers, coatings, curing agents, loose particles, laitance and other contamination or foreign matter which may interfere with the adhesion of the waterproofing coating.

3.5 All horizontal surfaces (base and topping) to be waterproofed shall be graded to fall towards discharge outlets before proceeding with application of waterproofing coating. Waterproofing coating shall NOT be applied onto a level surface not graded to fall unless specified otherwise.

3.6 All drains shall be cleaned and operative. Drains shall be recessed lower than the slab surface. The surface shall be sloped to the drain to provide positive drainage.

4 Execution

4.1 Surface preparation

4.1.1 Prepare all surfaces to receive waterproofing coating accordance with manufacturer's instruction and recommendations.

4.1.2 Ensure that concrete and masonry surfaces are properly cured, clean and free of dirt, dust, oil, grease, wax, tar, mildew, paint, sealers, coatings, curing agents, loose particles, laitance and other irregularities and foreign matters which could be detriment to application and adhesion of the waterproofing coating to the substrate to be waterproofed. Water jet on surface is preferred.

4.1.3 Remove all mortar splatter, fins, rough, protrusions, ridges, penetrations, or sharp projections in the surface of the concrete, any and all protrusions shall be ground smooth or otherwise made smooth, in additional to the normal surface preparation.

4.1.4 In the event of exposed reinforcing steel, all exposed metal surface shall be clean. Remove oil, paint, rust, scales, or any other foreign matter with wire brush. Clean metal surface may treat and apply appropriate primer recommended by waterproofing manufacturer.

4.1.5 Fill void, honeycomb, bug holes, rock pocket, surface pitting and spelled surface with Mygrout GP cementitious grout. All repairs to concrete surface shall be carried out with Mygrout GP accordance with manufacturer's instruction and recommendations.

4.1.6 Repair of surface irregularities, excessive roughness shall be repaired prior to the application of waterproofing coating with Mygrout GP or cementitious polymer leveling compound accordance with manufacturer's instruction and recommendations. Allow the grout or levelling compound to cure for at least three days before waterproofing application.

4.1.7 Shrinkage cracks, any non-moving hairline cracks (1.6mm) or less shall be treated with a coat of cementitious coating application, 50mm to either side of the crack. Shrinkage cracks in the concrete surface, which are 3mm wide or greater shall be ground out to a minimum 6mm wide x 12mm deep and treated with Mygrout GP accordance with manufacturer's instruction and recommendations. Allow the grout to cure for at least three days before waterproofing application.

4.1.8 Structural cracks regardless of wide, which involve of cold joints, construction joints or other moving joints, shall be ground out to a minimum 6mm wide x 12mm deep. All performance filler in joint is to be removed to a depth of 25mm below slab surface. Appropriately sized closed cell joint bickering is to be installed. These joints are to be caulked with polyurethane sealant accordance with manufacturer's instruction and recommendations. Allow the sealant to cure for at least seven days before waterproofing application.

4.2 Detail Works

4.2.1 Angle Filler

At all the horizontal and vertical surface junctures, Upturns, projections (pipes, sleeves, drains, vents etc.), wherever a vertical surface or protrusion exists (parapet wall or other projection which penetrate up to slab), a 45^0 filler cant shall be installed to reduce the tension of the waterproofing coating in the transition.

4.2.1.1 Cement sand filler: Mix cement and sand (1:3) with admixture, apply appropriate filler accordance with manufacturer's instruction and recommendations.

4.2.1.2 Non shrink grout filler: Use Mygrout GP, apply appropriate filler accordance with manufacturer's instruction and recommendations.

4.2.1.3 Sealant filler: Use polyurethane sealant, apply appropriate filler accordance with manufacturer's instruction and recommendations.

4.2.2 All projections (pipes, sleeves, drains, vents etc.) may treat with appropriate primer and allow to dry tack-free. Apply an appropriate sealant filler with polyurethane sealant accordance with manufacturer's instruction and recommendations.

4.2.3 Allow detail works application to cure accordance with manufacturer's instructions prior to general application of waterproofing coating. All the angle filler should be done at least one day before waterproofing application.

4.3 Primer (optional)

4.3.1 Apply Mymix 368 as primer to enhance the adhesion of Myproof Flex WP to the substrate.

4.3.2 Allow primer to cure for 30-60 minutes. The Myproof Flex WP can be applied when the primer turn transparent and tacky to touch

4.4 Myproof Flex WP

4.4.1 Apply Myproof Flex WP before applying Myproof Expose WPF to prevent for blistering issue on Myproof Expose WPF surface.

4.4.2 Mix 1 part of Myproof Flex WP Part A (liquid) with 2 parts of Myproof Flex WP Part B (powder) by weight. Mix in a clean container by slowly adding the powder component to the liquid component whilst stirring using a low-speed heavy-duty electric mixer with a suitable paddle. Mix the mixture until homogenous slurry and make sure no unmixed powder is left at the bottom of container. Prepared mixture can be applied immediately as no stand of time is required.

4.4.3 Discard unused mixture that has begun to set. Do not restore unused mixture that has set with additional water or powder.

4.4.4 Apply the Myproof Flex WP in application rate of 1kg / m2 / coat x 1 coat by using a brush or roller.

4.4.5 Allow at least 72 hours curing of the finish coat.

4.5 Myproof Expose WPF

4.5.1 Preparation and application of the waterproofing coating shall be accordance with manufacturer's directions and instructions.

4.5.2 Myproof Flex WP shall be dry at least 72 hours before the application of Myproof Expose WPF.

4.5.3 Myproof Expose WPF shall be installed at a dry film thickness (DFT) approximate 1mm by follow the application rate of 0.6kg / m2 / coat x 2 coats and total consumption rate of 1.2kg/m^2. Apply Myproof Expose WPF by roller the first coat and allow the first coat to dry between 2 to 4 hours before applying the second coat.

4.5.4 Apply the second coat in the alternate horizontal and vertical cross direction of the first coat. For most of the site condition, it may need to apply more than two coats to achieve the desire thickness.

4.5.5 Apply the Myproof Expose WPF into the outlet PVC pipe for two inches depth in order to protect the joint between PVC pipe and concrete slab.

4.6 Curing

4.6.1 Curing shall be at least 48 hours before trafficking, to maintain and yield optimum strength.

4.7 Flood Test

4.7.1 When flood test on the installed waterproofing coating is require. Flood test the horizontal and vertical area with clean water for the period of 24 hours after 7 days of the waterproofing application.

4.8 Clean Up

4.8.1 Clean all adjacent areas to remove any stains or spills with water.

4.8.2 Clean tools or equipment with water before materials cure and harden.