TECHNICAL BULLETIN – TB155

METHOD STATEMENT FOR ARDEX WPM300 IN BELOW-GRADE APPLICATIONS

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INTRODUCTION & SCOPE

This document covers preparing the surface and installing ARDEX WPM300 HydrEpoxy as a waterproofing membrane. When applied to the negative side of a structure, they prevent the passage of water under hydrostatic pressure from the positive side.

SUB SURFACE CONDITION

Surfaces to which this membrane is to be applied must be structurally sound and possess sufficient cohesive strength to withstand the pressures to be imposed. The substrate to which this system is to be used must be continuous with no material changes (i.e., brickwork or concrete blockwork assembled with mortar joints are unsuitable substrates for this membrane installation).

SURFACE PREPARATION

All surfaces to be treated shall be free from dirt, grease, oil, salts, and other surface contaminants that may interfere with the membrane's bonding properties to the base substrate. Surface pores should be opened by abrasive blast cleaning or other suitable mechanical means to allow the membrane system to penetrate the surface and achieve an adequate mechanical key.

PRIMING

Before any surface contamination occurs, surfaces to be treated should be primed using ARDEX WPM300 HydrEpoxy (thinned 50% with water), i.e., 1 volume Part A: 1 volume Part B: 1 volume of water. The primer should be applied using a brush, roller, or spray equipment, and, using either of the two former methods, the primer shall be worked well into the surface. When using a spray application, the coating should be rolled using a mohair paint roller to work the product into the surface immediately following the application.

Only apply the primer to a sufficient area that can be over-coated with the first membrane coat within 24 hours. If left for excessive periods. the primer forms a glazed surface finish that inhibits the bonding capacity of the membrane coating. Ideally, the membrane application should occur immediately 4 – 6 hours after the primer application.

MEMBRANE COATING

A membrane coating of ARDEX WPM300 HydrEpoxy should be applied to all primed surfaces in a minimum of two coats to achieve a coverage rate of 1.5m² per litre for the two coats (3m² per litre or 0.3mm wet film thickness per coat to achieve a nominal minimum total dry film thickness of 0.3 mm).

The first membrane coat must be applied to the primed surface after 4 - 6 hours of curing (preferably overnight) before the application of a second coat. Application may be by brush, roller, or spray equipment, and the roller's nap should suit the surface to which the membrane is being applied—medium nap for smooth surfaces, long nap for rough surfaces, and ultra-long nap for very rough surfaces.

MEMBRANE PROTECTION

The applied membrane should be protected from mechanical damage; however, if damage occurs, the membrane can be reinstated by feathering the damaged edges and applying two coats of ARDEX WPM300 HydrEpoxy to the damaged areas.

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