METHOD STATEMENT

iPLUS 4P

TORCH APPLIED MEMBRANE

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SECTION I: Tools & General Instructions

A. Tools & Equipment

i. PPE: Fire resistant gloves, safety glasses, overalls.

ii. Flame torch and LPG cylinder.

iii. Cutting knife.

iv. Brush /roller.

v. Steel scrapper.

vi. Cotton/cloth waste.

vii. Solvent cleaner.

viii. Measuring tape.

B. Material Storage

i. Membrane rolls should be kept in upright position at all times and stored in a dry and shaded place especially during the hot summer months.

ii. Avoid stacking of membranes on pallets to avoid causing damage to the membranes.

C. General

i. Membrane application should be carried out when the ambient temperature is between 10°C to +45°C.

ii. Avoid application in extreme weather conditions like dust storm, rain or snow.

SECTION II: Application Guidelines- Roofs

A. Surface Preparation

i. The surface shall be cleaned of all loosely adhering particles and contaminants which may affect the adhesion of the membrane. Remove all protrusions which may damage the membrane. Any dew settled, or concrete dampness should be thoroughly cleaned using a dry cloth. Repair all potholes with a suitable and appropriate repair mortar.

ii. Prepare 25mm x 25mm angle fillets on all internal corners with a cement sand mortar which should have a 45-degree fillet. External corners shall have a 20mm chamfer.

iii. Prepare a 20mm x 20mm groove on the up-stand and parapet wall for tucking and finishing the membrane.

B. Priming

i. Apply a coat of iKote SB 41 solvent based primer on the prepared surface. Allow the primer to dry before membrane application. This enhances the adhesion of the membrane with the substrate.

C. Membrane Application

i. Apply a 200mm reinforcing strip on all the internal and external corners.

ii. The first and primary step prior to starting the membrane application is to align the membrane on the designated areas. Unroll the full length of the iPlus 4P Torch On Membranes and adjust the angles with the subsequent and adjacent membranes on which the overlapping will take place. The general side overlapping should be at least 5cm and the end overlapping should be at least 10cm.

iii. After the membranes are aligned, the membrane will be rolled back. Start the torching process of the membrane by using propane gas fired flame to torch the underside of the membrane. As soon as the flammable film starts to melt pull the roll forward so that the melted bitumen which forms a bead starts adhering on to the concrete surface. The membrane is pulled forward using an L shaped pulling rod. The process of torching and unrolling is to be done simultaneously to ensure continuity and a proper torching of the membrane thus avoiding any over torching and subsequent damage to the polyester reinforcement carrier.

iv. The seams on the overlap should be heated from the top and resealed with trowel to ensure seam integrity.

v. On the up-stand turn the membrane and tuck it into the cut groove.

vi. Carefully torch and fix the strips of iPlus 4P On Membranes to prepare the details such as corners, edges and joints in advance.

vii. The tucked in membranes in the groove are then sealed with a bitumen mastic sealant to prevent the penetration of water.

viii. Aluminum metal flashing sheet shall be fixed up to the required height on top of the waterproof membrane.

ix. Once the application is completed, water test may be carried out to check the integrity of the waterproofing membrane system.

SECTION III: Protection & Damage repair

A. Membrane System Protection

Post water test to identify leakage points the membrane system shall be covered and protected immediately by appropriate means. The applied waterproofing membrane should not be left exposed for a prolonged period of time in order to prevent damage from ongoing site activities and deterioration from exposure to UV.

B. Membrane Repair

Any damage to the membrane caused due to various factors during the course of ongoing site activities or subsequent works shall be repaired immediately in order to maintain the waterproofing integrity. All repair

works shall be carried out after consultation with the manufacturer or the supplier of the membrane. The damaged area should be patched with a piece of the same membrane which extends at least 2 inches from all the sides of the puncture. The area to be repaired should be primed with the bitumen primer and allowed to dry before carrying out the patching works.

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