

## SEALEX NO. 33 PAVED/PEBBLE AREA WATERPROOFING SYSTEM

### Draft Specification:

#### **PAVED/PEBBLE AREA WATERPROOFING SYSTEM**

To all areas requiring waterproofing under tiles on sand/cement beds; insitu concrete screeds; concrete paving slabs on corner pads or loose laid river pebbles, supply and install to manufacturer's written instructions and to AS CA55 a Sealex No. 33 2-layer bituminous waterproofing system incorporating the following:

- Substrate:** Concrete decks with integral falls to AS CA55. Falls are to be evenly graded to outlets without ponding.
- External Corners:** Provide 12mm x 12mm chamfers along all concrete edges at junctions of horizontal and vertical surfaces where membrane is to be turned over.
- Internal Corners:** Provide 50mm x 50mm triangular sand/cement fillets at all junctions between horizontal and vertical surfaces.
- Roof Drains:** Roof drains are to be of solid cast metal construction with dished body and horizontal flanges and having a membrane clamping ring with fixings which do not penetrate the membrane. Set drains in deck so that the top surface of flange is flush with top surface of deck. Drains are to be fitted with extension pieces to adjust grates to the level of the top of the surface of the paving or, in the case of areas with loose laid pebbles, fitted with domed grates all as detailed in architectural drawings. Drains are to have grates which can be screwed down and released independently of the membrane clamping ring.
- Substrate Preparation:** The deck shall be smooth, firm, continuous, and free of loose or foreign matter likely to affect the adhesion of the membrane to the surface. New concrete is to be given at least 28 days curing time before laying membrane. After rain, no membrane is to be laid until the deck is completely dry.
- Primer:** Sealex Bitumen Primer applied to the dry deck at the rate of 4 to 6 square metres per litre. Primer must be completely dry before laying membrane over. Primed areas which have become soiled must be re-primed.
- First Membrane Layer:** Sealex Polyflame polyester/talc APP modified bitumen membrane sheeting.
- Top Membrane Layer:** Sealex Polyflame polyester/talc APP modified bitumen membrane sheeting.
- Parapet Finish:** Provide 2-layer membrane turn-ups to heights shown on architectural detail drawings and fix top edge of membrane simultaneously with installation of Sealex No. 01 surface-mount pressure-seal as detailed. Pressure seal can be powder coated to approved colour or left in raw mill finish

<b>Penetrations:</b>	Provide 2-layer membrane turn-ups to upstand kerbs as detailed for all pipe and duct penetrations and plinths and overflash or cap all in accordance with relevant architectural details.
<b>Expansion Joints:</b>	Detail membrane layers at minor and major movement joints in accordance with architectural detail drawings.
<b>Hand-over:</b>	On satisfactory completion, hand-over membrane areas for commencement of paving trades or to proceed with installation of concrete paving slabs on pads or loose laid river pebbles.
<b>Slip Sheets:</b>	Prior to laying tiling beds, loose lay two layers of 200 micron polyethylene film with all joints in top layer sealed with adhesive tape approved by polyethylene manufacturer.
<b>Protection Board:</b>	<p>Prior to laying insitu concrete screeds, loose lay Ruberoid Protection Board No. 4P followed by a slip layer of 200 micron polyethylene film. All joints in the protection board are to be closely butt joined and adhesive taped and all joints in the polyethylene film lapped and taped with adhesive tape approved by polyethylene manufacturer.</p> <p>At perimeters and penetrations, ensure that slip and protection sheets are turned up to full height of paving to prevent adhesion to membrane upstands.</p>
<b>Insulation:(optional)</b>	To the whole of the membrane area, supply and install 1800mm x 900mm x 25/50mm thick boards of extruded polystyrene foam with a shiplap edge machined on all four sides. The boards are to be loose laid directly over the membrane with laps staggered to give a brickwork bond finish. The boards are to be closely fitted to kerbs, parapets, vents and other projections, but not fixed to them.
<b>Paving Slabs on Corner Pads:</b>	To all areas indicated on the drawings, supply and install reinforced plain concrete or exposed aggregate paving slabs on Caro paving supports and shims supplied by Sealex Industries. Where slabs are cut around penetrations, fill irregular area with river pebbles to match exposed aggregate surface.
<b>Filter Fabrics:</b>	Prior to laying river pebbles directly on the membrane, loose lay a filter/protection mat of non-woven polyester fabric weighing 310grams per square metres with all joints lapped 150mm.
<b>River Pebbles:</b>	To areas indicated on drawings, spread evenly over the filter/protection mat nominal 15-35mm washed, rounded river pebbles to a depth of approximately 60mm and weigh not less than 60kg/ m <sup>2</sup> . The pebbles shall not contain more than 5% fines.

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