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Daraflex & Hyprcretesystem

WATERPROOFING OF HEAVY FOOT TRAFFICABLE AREAS

Discussion

Flat roofs to be waterproofed with the DARAFLEX system sometimes have areas which will be subjected to more than occasional light foot traffic, i.e. wash lines, walkways and servants quarter areas.

Surface Preparation

All forms of surface contamination must be removed to ensure a smooth surface, free of any loose material, or any other barrier to adhesion. Cracks or voids in the surface must be filled using HYPERCRETE a modified cementitious material and allowed to cure for a minimum of 24 hours. Should the parapets be rough HYPERCRETE SLURRY should be applied over the area, which is to receive the flashing. Fullbore covers should be removed to facilitate “dressing in” the waterproofing. It is recommended that the full-bores be checked to ensure that they function correctly.

Finally an assessment should be made as to what extent, if any, ponding is likely to occur. Standing water present after rain and run-off in excess of 5mm in depth is considered as excessive and will invalidate any performance assurances. A topping of HYPERCRETE in such areas is recommended. Expansion joints (if present) should be sealed and a PVC slip sheet placed. In no circumstances should the waterproofing be laid directly over the expansion joint.

Application

Apply by brush or roller one coat of DARAFLEX PRIMER (60 part water, 40 part product) at the rate of 1L/6m^2 Allow a minimum of 30 minutes drying at 25o C and 60% R.H.

Apply at the rate of 1L/m^2 undiluted DARAFLEX and immediately embed the SBP Geo-Fabric into the wet product ensuring no creases or folds in the material. Work the membrane into the DARAFLEX using a brush. Product should be evident “striking through” the membrane and if this is not the case, too little product has been applied. At this point additional DARAFLEX at the rate of 1L/m^2 should be applied in 100 mm wide strips along the edges of the membrane.

Apply the second run of membrane into the bedding coat in the same manner ensuring an additional coat at 1L/m^2 between the two layers of membrane at the 100 mm overlap.

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After allowing a minimum drying period of 45 minutes at 25o C and 60% R.H. apply a coat of diluted DARAFLEX (90 part product, 10 part water) at the rate of .75L/m^2. Allow a minimum of 45 minutes drying period and:

Apply a further similarly diluted final coat of DARAFLEX at the rate of .75L/m^2. It will be noted that a total of 2.5L/m^2 of DARAFLEX has now been applied. The minimum weight of the membrane alone shall be 130g/m^2. The total weight per m^2 shall therefore be:

$$\frac{2.5}{1} \times \frac{55}{100} = 1.375 \text{ Kg/m2} + .130 = \frac{1.505}{\text{kg/m2}}$$

Flashings

It is recommended that the membrane be turned up the parapets 150 mm. A flashing strip of 300 mm (available in pre-cut rolls of 20 m in length) should overlap the turn-up in such a manner that 100 mm of its width be on the horizontal plane and 200 mm on the vertical.

Finish coat

A finishing coat of DARACOAT REFLECT Bitumenous Aluminium Paint, which is highly reflective, is recommended.

The heavy foot trafficable areas are treated as follows. Prepare HYPERCRETE cementitious slurry in the following manner.

In a suitable container, add 15L of HYPERCRETE to 6L of water. Slowly add 50kg's of OP cement and mix to a uniform lump free consistency. Add an additional 6L of water to adjust the viscosity to a workable slurry. Ensure that the DARAFLEX Membrane is clean and free of any barrier to adhesion. Apply by means of brush or roller HYPERCRETE SLURRY to the DARAFLEX Membrane at the rate of 1L/m^2 and immediately embed POLYPROPYLENE Geo-Fabric into the wet product. Allowing 30 minutes drying time between coats, apply a further two applications of HYPERCRETE SLURRY at a rate of .75L/m^2.

The completed system should be protected from rain for a period of 12 hours.