

Thermoflexsystem

THERMOFLEX APPLICATION SHEET NO.5 WATERPROOFING OF VEHICULAR TRAFFICABLE AREAS

Discussion

The system was developed to meet the need for an economically priced, high performance, low maintenance system. With increased congestion and greater demands for city parking, parking decks have become increasingly common and require a completely trafficable waterproofing system.

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 (modified cementitious material) and allowed to cure for a minimum of 24 hours. Should the parapets be rough a 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. 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

By means of brush or roller apply a thin uniform coating of THERMOFLEX PRIMER to the entire surface to be waterproofed at a rate of 6sqm/L. Observe fire precautions. Allow 3 hour drying period and "lay up" the area with THERMOFLEX 3000. Ensure a minimum of 75mm for overlaps. Using a trowel lift up the membrane at the overlaps and torch, running along all the joints. Press the heated surfaces together. All edges can now be smoothed by means of a heated trowel. Now lay up the area with THERMOFLEX 4000 and repeat the procedure with regards to the overlaps.

Flashings

It is recommended that the THERMOFLEX be turned up the parapets 150 mm. A DARAFLEX flashing strip of 300 mm 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. (See DARAFLEX data sheet)



Topping options

- 1) THERMOFLEX 2mm slip sheet is loose laid directly onto the THERMOFLEX system. The system can now receive the topping of warm/cold premix.
- 2) THERMOFLEX 2mm slip sheet is loose laid directly onto the THERMOFLEX system. A layer of sand is applied into which pavers are embedded.

Notes:

Initially the surface will appear too soft and a certain degree of surface loss will occur due to abrasion. This is normal and will stop as continued compaction is experienced due to traffic. Shrinkage cracking will also occur and is normal, not affecting the underlying waterproofing membrane.

Expansion Joints

Owing to the variations experienced in service requirements contact our technical department for the correct detail before commencement.

Maintenance

It is recommended that an inspection of the wearing surface be conducted after 5 years. High traffic areas adjacent to onramps may require a maintenance topping although normally this is not the case.