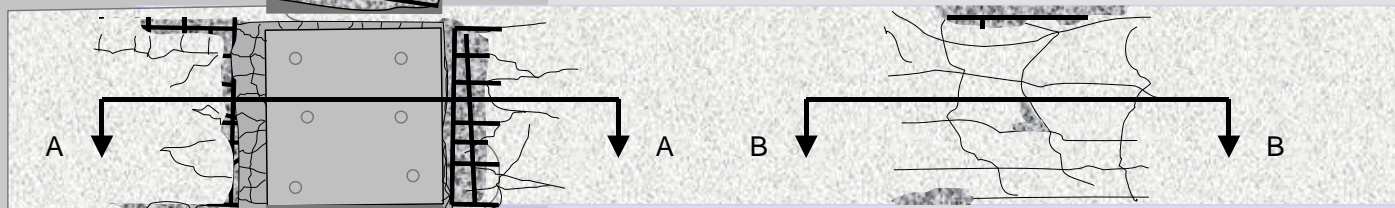


RTGC Turning Plate Repairs – Laem Chabang Port

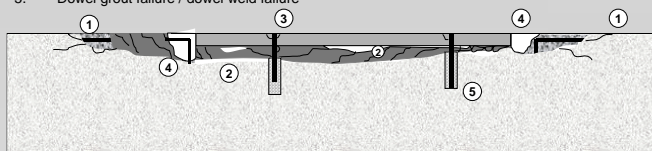
Repair type A – EXISTING REPAIR FAILURE



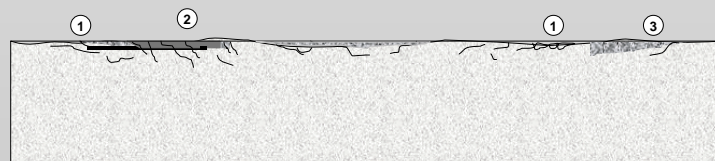
Repair type B – GENERAL SURFACE REPAIR



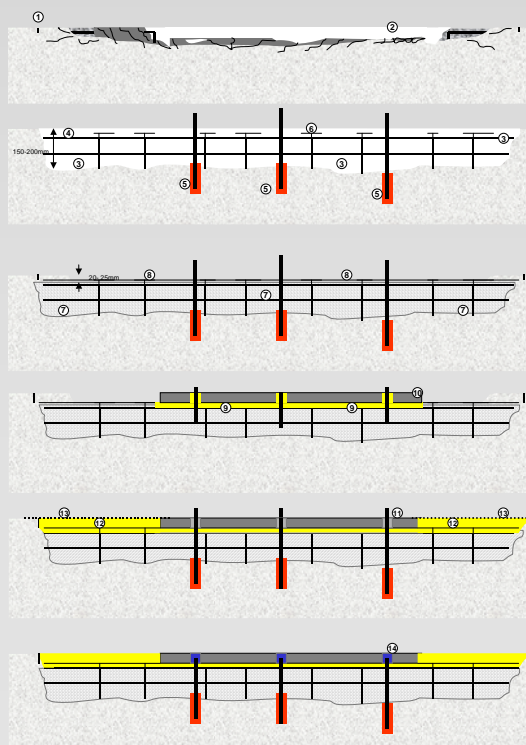
1. Continued cracking and spalling of concrete surface due to low strength concrete
2. Probable Water pockets under plate and grout
3. Weld failure due to plate movement
4. Failed Grout
5. Dowel grout failure / dowel weld failure



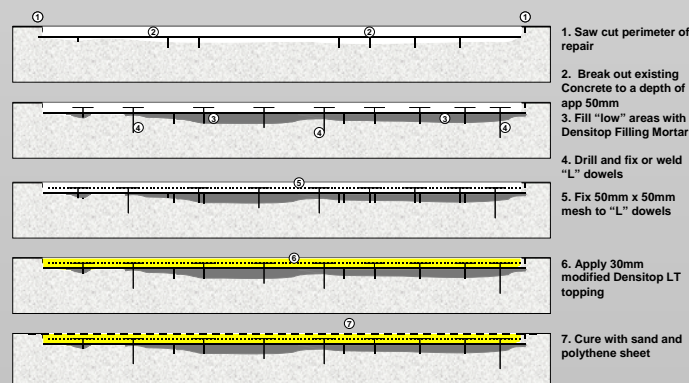
1. Continued cracking and spalling of concrete surface due to low strength concrete
2. Failed existing surface repair
3. Surface spalling and delamination



Repair Schematics



1. Remove steel plate and dowels
2. Saw cut perimeter of repair
3. Break out existing Concrete to a depth of app 200mm
4. Repair existing re-bar
5. Drill and fix dowels
6. Fix "L" dowels to main Steel
7. Saturate, prime and recast base concrete with modified non shrink grout
8. FIX 50X50mm mesh to "L" dowels
9. Pour Densitop grout "pad"
10. Place pre-drilled steel plate over dowels and level
11. Allow initial cure and clean out weld holes
12. Complete repair with Modified Densitop LT
13. Cure with sand and polythene sheet
14. Trim and re-weld dowels



1. Saw cut perimeter of repair
2. Break out existing Concrete to a depth of app 50mm
3. Fill "low" areas with Densitop Filling Mortar
4. Drill and fix or weld "L" dowels
5. Fix 50mm x 50mm mesh to "L" dowels
6. Apply 30mm modified Densitop LT topping
7. Cure with sand and polythene sheet

Rubber tired gantry cranes (RTGC's) with there 4 sets of independently steearing wheels impose enormous stresses on pavement surfaces in container stacking yards and terminals. The failure of the turning plate causes severe problems for both terminal operators and in house maintenance crews.

The Densitop repair system installed by concrete repair specialists Hammersmith Limited offers a long term and ultimately economic solution to an otherwise on-going,