
DBSA STORM DAMAGE PROGRAMME:**GENERAL PLASTER REPAIRS & BRICKWORK / BLOCKWORK STITCHING REPAIRS SPECIFICATIONS****GENERAL PLASTER 'CRACK' REPAIRS:****1. RECOMMENDATIONS & SPECIFICATIONS:**

All plaster 'cracking' must be repaired as specified below. The contractor is also required to determine if any cracks in the plaster have been transferred to the blockwork/brickwork. (Contractor is required to cut 100mm long x 20mm wide inspection slot). If a crack has transferred to the blockwork/brickwork, then it needs to be repaired as set out in the specification for blockwork/brickwork 'stitching'.

1.1 SPECIFICATION FOR GENERAL 'PLASTER' REPAIR:

Break out and remove damaged plaster to 50mm into sound plaster. Clean wall and apply 'Sika Plasterstik' or similar approved bonding agent to manufacturer's specifications. Re-plaster wall and paint to architects specifications.

1.2 SPECIFICATION FOR PLASTER REPAIR 'CRACKING':

Rake out crack 6mm x 6mm deep. Clean out all debris/loose material. Fill with acrylic filler – 'Sikacryl' or similar approved to manufacturers specifications. Paint to architects specifications.

1.3 SPECIFICATION FOR BLOCKWORK/BRICKWORK 'STITCHING' REPAIR:

Rake out crack. Remove all debris/loose material. Stitch crack in blockwork/brickwork with R8 (300mm long) reinforcing rods epoxy grouted with 'Prostruct 617 General Purpose Epoxy Adhesive' or similar approved at 250mm centres into (10mm deep) slots cut into blockwork/brickwork – all to manufacturers specifications (Slots to be completely filled with epoxy). All slots to be cut perpendicular to the crack in the blockwork/brickwork. Fill slots cut in plaster with acrylic filler – 'Sikacryl' or similar approved to manufacturers specifications. Paint to architects specifications.

2.0 SPECIFICATION FOR REPAIRS TO SURFACE BED SLAB:

Existing surface bed slab must be demolished and reconstructed as follows:

- Quality of existing underlying material to be inspected, if found to be of good quality:
 - o Rip and compact underlying material to 90% MOD AASHTO
- If found to be of bad quality:
 - o Remove and replace with G5/G7 material in 150mm layers compact to 90% MOD AASHTO
- New concrete slab to be 100mm thick 20Mpa strength, reinforced with mesh Ref 193 on poisoned fill and 250micron damp plastic.
- Provide isolation joints between wall and concrete slab constructed from impregnated soft board.
- Floor finish to architectural specification.

3.0 SPECIFICATION FOR STRENGTHENING SETTLING FOUNDATIONS:

Vertical foundation movement or settlement should be repaired by reconstruction of mass concrete footing under the existing strip footing as follow:

- Excavate 300mm deep by 800mm wide by 3000mm long trench underneath

- existing strip footing.
- The trench should be in staggering two meter intervals covering the gable side and three affected classrooms in length.
 - Reinforce with 3Y12 bars top and bottom and R8 Stirrups at 300mm c/c.
 - Place 25Mpa concrete in each trench and vibrate concrete as instructed.

Responsible Structural Engineer



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