



Quickmast SBA Method Statement (Bonding of Segmental Concrete Bridges)

Section A : General Comments

High temperature working

The following considerations should be when applying the product at the maximum range of temperature stated in the datasheet:

- (i) Unmixed materials and equipment should be stored in cool place and away from direct sunlight.
- (ii) Plan for enough material, tools and labours to avoid any stoppage during the application process.
- (iii) Avoid application through peak temperatures of the day, arrange for temporary shading as required.

Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement:

Protective clothing	:	Gloves, goggles, face mask and protective overalls
Substrate preparation equipment	:	Marker (chalk or pen), disc cutter, hammer and chisel or
		powered breaker, wire brush, proprietary blasting equipment
Mixing equipment	:	Slow speed mixing drill, mixing paddle and mixing vessel
Application equipment	:	Stainless steel spatula or trowel

Section B : Application

1.0 Preparation

- 1.1 The substrate should be dry, clean and free from any laitance, wax, grease, dirt, oil or any materials could affect the bond.
- 1.2 Suitable mechanical method such grinding, light sand/grit blasting, acid etching or any equivalent method should be used to remove any existing old coating or surface treatments like the curing compound, oil...etc.

Note: If the surface is contaminated by oil or grease, it is recommended to consult our technical department to advice for the suitable method for removing the contamination.

- 1.3 Roughen the substrate by grit blasting to accept Quickmast SBA for improved mechanical key.
- 1.4 Ensure that the two segments to be bonded are correctly aligned, and can be properly put in place during Quickmast SBA's workable time.







2.0 Mixing

- 2.1 Use a slow speed drill fitted with mixing paddle to mix the two components of Quickmast SBA (Base and Hardener).
- 2.2 Stir the individual components thoroughly before mixing them together.
- 2.3 Pour the base in a suitable size drum and start adding the hardener to the base component gradually while continuous mixing is maintained using slow speed mixer fitted with a suitable paddle. Continue mixing until a homogenous grey colour and uniform consistency paste is achieved.

Notes:

- Quickmast SBA should be mixed in the supplied pre-weighed proportions. Do not mix part of packs under any condition, as this will change the mixing ratio between the hardener and the base which will affect the material performance.
- Mixing should be stopped once a homogeneous and uniform grey colour paste is achieved. Typically, this will take 2 minutes using slow speed electrical drill fitted with suitable paddle (i.e. 300-500 rpm). Excess mixing time will adversely affect the rheology of the product, especially when it will be mixed and applied at the maximum range of temperature stated in the product's datasheet.

3.0 Application

- 3.1 Each independent area of application should have sufficient materials, equipment and labours.
- 3.2 Using a stainless steel spatula, trowel or glove protected hand; thoroughly apply with pressure the mixed Quickmast SBA onto the prepared surfaces of the two concrete segments that will be fixed with each other, typically 1 mm layer of the mixed material should be applied to each segment ensuring that unbroken layer is achieved.
- 3.3 The two segments are brought together within the working time of the product under light pressure.
- 3.4 Any excess paste which exudes from the segmental joints should be removed and the joint finished neatly.
- 3.5 The assembled section should be protected from movement by mechanical means until full setting of the resin is achieved.

Note: The mixed materials should be used within the pot life of the selected grade as stated in the product's technical datasheet.

4.0 Cleaning

- 4.1 Tools and equipment can be cleaned with **DCP Solvent** when it is wet.
- 4.2 Cured and dried material should be removed mechanically.





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Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Quickmast SBA**. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to DCP for approval, in writing, prior to commencement of any work. DCP will not accept responsibility or liability for variations to the above method statement under any other condition.

