Profiber CP System Method Statement

Heavy duty carbon fibre reinforced polymer plate structural strengthening system

Section A : General Comments

General

The recommended temperature of application is 10 - 35°C for substrate and ambient temperatures. The relative humidity and dew point of the substrate should be taken into consideration.

Pot life monitoring of Quickmast 342 is mandatory, when working in hot weather, Quickmast 342 should be cooled down prior to mixing.

Equipment

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

Protective clothing	:	*Protective overalls*
	:	*Good quality gloves, goggles and face mask*
Mixing equipment	:	*Mechanical mixer or drill fitted with a suitable paddle*
	:	*Clean container (20 litres)*
Preparation equipment	:	*Broom*
	:	*Vacuum cleaner*
	:	*Flat metal edge*
Application equipment	:	*Stainless steel scraper or spatula*
	:	*Hard rubber roller*

Section B : Application

1.0 Surface Preparation

1.1 All substrates shall be clean and free from oil, grease or any contaminants. Vacuum blast cleaning is recommended to remove all debris and dust.

1.2 Substrate should be dry with a maximum moisture content of 4% and should be a minimum of 28 days old.

1.3 The substrate should be even and checked with a flat metal edge, the tolerance accepted shall not exceed 10 mm in a 2 m length.

1.4 The bond surface shall be even and free from irregularities, pinholes or formwork marks. Fill all pinholes and smooth irregularities using Quickmast 342.

2.0 Mixing of Quickmast 342

3.1 To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used.

3.2 Stir the base and hardener individually to disperse any settlements, then pour the entire content of the base and hardener into a suitable size container and mix for 3 minutes until a uniform consistency is achieved.

3.0 Application of Profiber CP

3.1 Using a stainless steel scraper or spatula, apply a sufficient quantity (around 2.0 mm thickness) of Quickmast 342 on the back side of Profiber CP plate (i.e. the side that will be in contact with the substrate).

3.2 Apply a thin layer of Quickmast 342 on the prepared surface as well, and then firmly fix the carbon plate that was covered by Quickmast 342 on the prepared area.

3.3 Using a hard rubber roller, press the plates until the excessive adhesive is pushed out on both sides of Profiber CP plates. Remove the excessive material with stainless steel scraper.

3.4 Allow the adhesive to cure for 7 days prior to installing further renders or coatings.

3.5 When Profiber CP plates are intersecting, the bottom plate should be allowed to cure, and then the surface in crossing zone should be thoroughly cleaned prior to the application of the top layer following the same procedure mentioned above.

Important: Always protect the fibres from direct exposure to UV rays.

4.0 Cleaning

4.1 Quickmast 342 and equipment can be cleaned by an industrial grade solvent.

Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Profiber CP System**. 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.