



CORALFIX C104

High Strength Non-shrink Mortar for Blocking Anchoring, Floor Screed and Structural Reinstatement

高強度不收縮英泥性灰漿 - 固定設施及破損水泥基面結構修補

1.0 Description

CORALFIX C104 is a ready-mixed mortar specializing in blocking and anchoring new equipment, Floor Screed Reinstatement, steel rods, M & E openings and for professional repairing work on Honeycomb, Potholes, Cracks and Spalled areas on floor surface, GRC or edges. Preparation of CORALFIX C104 is non-rusting and does not contain metal attacking elements. It can be in the state of either fluid or plastic depending the way of installation. It can be applied in layer with thickness varying from 1mm to 100mm by single pour. (More than 100mm, 10mm chippings are used to minimize heat) and bond tightly to the cement base substrates. CoralFix C104 is water tight mortar system which is compatible to Labond Cementitious Waterproofing System (W888 or W889).

2.0 Technical Data

Physical Data:				
Appearance		:Grey Powder		
Grain size		:0.3mm		
Density		:1.3		
Mixing Ratio				
Typical Use	State	Water amount/25kg bag	Yield per bag	
Pressure Grouting	Fluid	5.0 to 5.5 liters	0.0137m ³ or 13.7 liters	
Structural Topping	Plastic	4.2 to 4.5 liters	0.0134m ³ or 13.4 liters	
Structural Patching	Plastic	3.5 to 4.0 liters	0.0131m ³ or 13.1 liters	
Semi-Precast	Plastic	3.0 to 3.5 liters	0.0124m ³ or 12.4 liters	
Emergency Repair (FAST curing Method)	Plastic	3.125 Litres (water) plus 1.375 Litres (Labond C118 Enhancer)	0.0134m ³ or 13.4 liters	
Technical Data				
Properties	Results			Test Standard
	Fluid	Plastic		
Setting Time – Initial	300 mins	65 mins		ASTM 953-87
Final	345 mins	105 mins		
Compressive Strength 28 days	52N/mm ²	84N/mm ²		ASTM C942:86
7 days	45N/mm ²	65N/mm ²		
1 day	35N/mm ²	52N/mm ²		
Emergency Repair 45 mins	N/A	6N/mm ² (45mins)	65N/mm ² (28days)	ASTM C942:86
Expansion/Shrinkage 3 days	+0.25%	0%		ASTM C940 – 89
28 days	0%	0%		
Bleeding 28 days	0%	0%		ASTM C940 – 89
Bond Strength 28 days	7.5N/ mm ²	8.3N/mm ²		BS 6319 - 84

3.0 Typical Application

Blocking of industrial equipment and heavy machinery mounting plates. Bedding of industrial equipment, construction posts, bars, pretreated concrete, joining and filling of concrete groove bedding of bridge decks. Repairing broken area of warehouse, car-park, factories, highways, fencing wall, pre-cast and GRC Unit.



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4.0 Application Details

Preparation:

Mix Grout to proper grout consistency. Use a rotary mixer with rubber tipped blades, Small quantities may be mechanically mixed using a slow speed mixer, Measure mixing water accurately when grouts are used for structural requirements. Mix the CORALFIX C104 for 2-3 minutes to a smooth even consistency.

Surface Preparation:

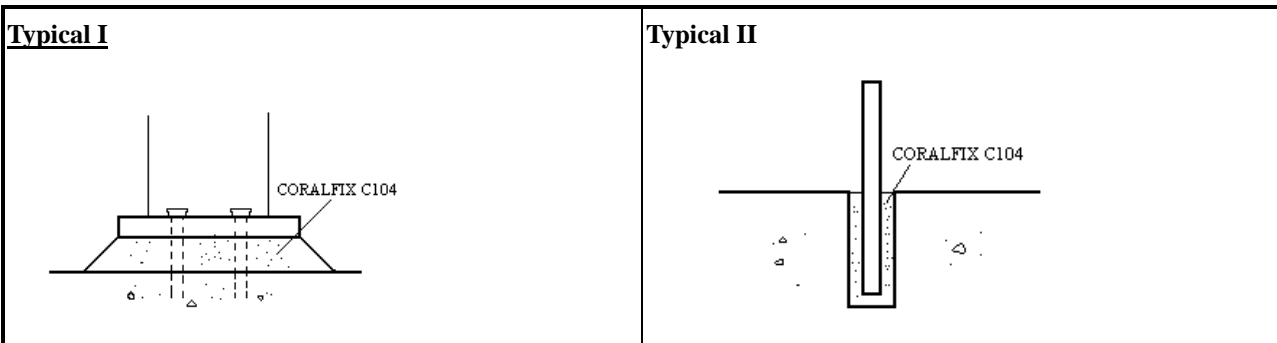
Concrete surface must be structurally sound, clean, dry and free of loose or deteriorated concrete and other contaminants, Steel or other surfaces must be clean and free of paint, rust, oil or dirt. Edges of concrete to be grouted that are less than 25mm thickness must be vertically cut to form a uniform butt. Smooth surfaces must be abraded to ensure proper bonding. Shim and anchor support elements to prevent movement. No ponding of water is present during grouting operation.

Application:

a. Blocking

The surface and anchor holes for receiving the Machines/Plants must be cleaned and free of dust or other contamination. Pre-build a solid and leak-proof form-work. Filling the framework with water a few hours before pouring CORALFIX C104. Then remove water completely and start pouring the mortar in one direction to avoid trapping air bristle. As a general guide, it has to fill at 3 cm above the level of the supporting framework. The thickness of blocking should be between 3 and 6 cm. Larger thickness may be filled by concrete made with the addition of rounded 3/8" aggregate. Once the mortar start setting, it may apply some protective product to the surface exposing to air or if the setting condition allowed, just simply pour 1 to 2 cm of cool water over the surface and leave it there until removal of framework.

Application Diagram for Blocking and Anchovy



b. Bedding/Anchoring

The hole diameter should be at least that of the rod plus 30mm. Depth of holes: 10 to 15 times the diameter of rod to be bedded. Clean the target area as required. Fill it with water a few hours before bedding. Remove all residual water. Fill the target areas to full capacity. Place bar in hole. In general, it is recommended to place bar before pouring of Mortar. As soon as setting start, it is suggested to place protective product over the surface exposing to air.

c. For Pressure Grouting or Gravity Feeding

The amount of water should be determined before the grouting operations begins. Ensure good hydrostatic head is maintained to ensure good grout flow and entrapped air is displaced as the grout flows. Place the grout material within 5 minutes of mixing to utilize the full benefit of the expansion process. Continue mixing additional batches as necessary to maintain a continuous grout flow into the forms. Do not mix more material than can be placed in 20 minutes.

d. For General Floor Screed and Structural Patching and Topping or Filling

Ensure that appropriate water ratio is used to ensure proper hydration and strength development of the required grout material occurs. Apply general cement work practice.

e. Curing

Like all cementitious mortars and concrete, CORALFIX C104 must be protected against rapid drying due to high temperatures and/ or strong winds. The use of wet burlaps, plastic sheets is highly recommended.

5.0 Packaging

25 Kg / Bag or Drum

6.0 Technical Services

The Technical offices of MASTER PROOFER COMPANY LTD are available for advice on any of LABOND's products.

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