



Quality beyond Innovation

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POWERFIX FRM

Fiber Reinforce Repair Mortar

DESCRIPTION

PowerFix FRM is a ready to use single component polymer modified, fibre reinforced repair mortar. It contains specially selected materials to provide smooth fine surface and durable repair system.

USES

PowerFix FRM is ready to use repair mortar for repairing precast concrete, load bearing structures, honeycombs, uneven surfaces, blowholes, tie rod holes and other concrete minor concrete damages. It can be used in overhead, vertical and horizontal repair situations.

ADVANTAGES

- Fibers help to eliminate micro cracking of repaired surfaces
- Non-shrink repair material
- Non-toxic
- Excellent workability
- Excellent adhesion and mechanical strength
- Extremely low permeability
- Smooth and dense surface
- Chloride free, safe to use in repairs of reinforced concrete structures

TYPICAL PROPERTIES at 25°C		
PROPERTY	TEST METHOD	VALUE
Component	—	Single
Mixed Form	—	Powder
Colour	—	Cement Grey
Pot life	—	20 Mins
Compressive strength	ASTM C109	50N/mm ² at 28 days
Flexural strength	BS 6319-3	7 N/mm ² at 28 days
Tensile strength	BS 6319-7	5 N/mm ² at 28 days
Bond strength	ASTM D4541	>1.5 N/mm ² at 7 days

SURFACE PREPARATION

The area to be repaired should be clearly marked and saw cut at least minimum of 5mm depth to avoid feather edges. The surface should be clean, free of



dust, loose particles, greases, oil, curing compounds, and loosely adhering particles. Cement laitance should be removed by mechanical means. The surface to be repaired should be saturated with clean water prior to application.

MIXING

PowerFix FRM should be mixed with water using a heavy duty slow speed drill machine fitted with a paddle. Amount of water to be added is 4 ltrs per 25kg bag. Mix for at least 3 minutes to ensure a homogeneous lump free consistency. Do not try to remix the product after it loses its workability by adding more water.

APPLICATION

PowerFix FRM can be applied by hand or wet spray. It should be firmly placed to ensure proper bonding to the prepared surface. Wooden float or plastic float may be used for levelling and initial finishing. Final finish can be carried out just before the initial set of material using a steel trowel. Maximum of 40 mm thickness can be carried out in a single layer application. Thicker repair may be achieved by working in layers.

CURING

To prevent rapid surface drying and crazing, repair mortar should be cured by spreading wet burlap or moist hessian cloth over the surface or use any based of curing compound.



Before Application of Powerfix FRM



After Application of Powerfix FRM

PACK SIZE

25 kg bag

YIELD

13 ltrs/25 kg bag

COVERAGE

1 m²/25 kg bag at 13 mm thickness

GENERAL INFORMATION

Shelf Life 12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

CLEANING

Clean all equipment and tools with water immediately after use.

HEALTH and SAFETY

Gloves, goggles & suitable mask must be worn.

TECHNICAL SERVICE

Philippine SkyBird Industrial Corporation. Services are available on request for on-site support to assist in the correct use of its products.