



Quality beyond Innovation

Philippine SkyBird Industrial Corp.

31-B, SEB Commercial Center, Ortigas Ave., Taytay, Rizal
Tel: (02) 8693-6560 • (02) 8359-0365 • Website: www.philskybird.com

POWERFIX MC

Non-shrink, flowable micro-concrete

DESCRIPTION

PowerFix MC is a high strength, flowable, shrinkage compensated micro concrete with low alkali content. It provides a dimensionally stable, free flowing micro concrete with controlled expansion. It exhibits excellent thermal compatibility with concrete.

USES

PowerFix MC can be used in various applications such as:

- Repair of large sections including encasement of structural elements
- Repair of marine structures, bridges, etc.
- Difficult access location where patch repair is not feasible
- Used as repair material where cathodic protection is used.
- Suitable for voids/ sections up to 20-150 mm in single layer

ADVANTAGES

- Exhibits excellent bond with concrete
- Non-shrink repair material
- Self compacting, no vibration required
- Excellent workability
- High early and ultimate strength

TYPICAL PROPERTIES at 25°C with W/P ratio at 0.16

PROPERTY	TEST METHOD	VALUE
Component	–	Single
Mixed Form	–	Powder
Colour	–	Cement Grey
Pot life	–	20 Mins
Compressive strength	ASTM C109	60N/mm ² at 28 days
Flexural strength	BS 6319-3	9 N/mm ² at 28 days
Tensile strength	BS 6319-7	4.5 N/mm ² at 28 days

SURFACE PREPARATION

The area to be repaired should be sound 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 MC 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 MC can be applied by hand or pump continuously. Place all the mixed material within 30 minutes. If pumping of material is adopted, make sure to lubricate the pump lines by grouting. In situations which require deep sections to be casted or repaired, 10 mm down coarse aggregate in the ratio of 1:1 or 1:0.5 by weight of **PowerFix MC** can be added depending on consistency required.

Thick mortar consistency of mixed material can be achieved by reducing water to powder ratio for use in special applications. In continuously wet areas or where enhanced bonding is required, it is recommended to use UltraBond SA as bonding agent before placing of **PowerFix MC**.

CURING

Curing is important to allow cement hydration in the micro concrete to insure full strength gain. repair mortar should be cured by spreading wet burlap or moist hessian cloth over the surface or use any based of curing compound.

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.