



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 SET45

Rapid Set Flowable Repair Grout

DESCRIPTION

PowerFix Set45 is a single component, concrete repair and anchoring material which sets in 45 minutes and takes rubber-tire traffic 2hrs after placement. This product bonds to both concrete and masonry and can be used indoors and outdoors for a variety of highway and heavy industrial repair jobs.

USES

- Bridge deck and highway overlays
- Concrete pavement joint repairs
- Airport runway light installations
- Full-depth structural repairs
- Expansion device nosings
- Anchoring iron or steel bridge and balcony railings
- Commercial freezer room repairs
- Truck dock repairs
- Parking deck and ramp repairs
- Heavy industrial repairs

ADVANTAGES

- Easy to use, just add water
- Flowable
- Wide temperature use range-from below freezing to hot weather exposures
- Rapid, high early strength-when 2" (50mm) cubes are tested, the results show approximately 2,000 psi (13.8 MPa) compressive strength in 90 minutes.
- Superior bonding - no bonding agent is needed.
- Resistant to freeze/thaw cycles and deicing chemicals.
- Virtually no drying shrinkage
- Thermal expansion/contraction rate similar to that of plain, portland cement concrete
- Only air-curing required

USAGE INFORMATION

A sound base is essential for good repairs. Flush the area with clean water to remove all dust. Air blast with oil-free, compressed air to remove all water before placing **PowerFix Set45**.

Use neat material for patches less than 1" (25 mm) in depth or width. For deeper patches, 25 kg bag of



PowerFix Set 45 concrete must be extended by adding up to 12.5 kg of properly graded, dust free and hard aggregate. (Do not use calcareous aggregate made from soft limestone). After adding clean water and aggregate, if needed, mix for approximately 1 to 2 minutes and place.

TYPICAL PROPERTIES at 25°C			
PROPERTY	TEST METHOD	VALUE	
Component	–	Single	
Form	–	Powder	
Colour	–	Grey	
Mixed density	–	2.20 kg/ltr +/-0.05	
Consistency	ASTM C1107	WP	0.2
Compressive strength	BS 6319-7	2 HRS	15 MPA
		3 HRS	30 MPA
		6 HRS	35 MPA
		1 DAY	40 MPA
		3 DAYS	45 MPA
		28 DAYS	55 MPA
Bleeding	ASTM C940	Nil	
Setting time	ASTM C191-01a	30-45 mins	

PROTECTION/CURING

PowerFix Set45 should air dry for proper cure. Liquid membranecuring compounds or plastic sheeting may be used to give the surface early protection from precipitation, but never wet cure **PowerFix Set45**.

PRECAUTIONS

- Do not add sand, fine aggregate or portland cement to **PowerFix Set45** concrete.
- Water content is critical. Do not deviate from the recommended water content.
- When mixing or placing **PowerFix Set45** in a closed area, provide adequate ventilation.
- Do not use **PowerFix Set45** as a precision, non-shrink grout.
- Never featheredge. For best results, always saw cut the edges of a patch.

MIXING

PowerFix Set45 should be mixed using heavy duty slow speed drill machine fitted with a paddle. Powder should be poured to the premeasured water. Mix until uniform consistency is achieved. Cold water will give better flowability of mixed material.

PACK SIZE

25 kg bag

YIELD

13.5 ltr/25 kg bag with W/P of **0.2**

CURING

No water curing required

GENERAL INFORMATION

Shelf Life 6 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

HEALTH and SAFETY

Gloves, goggles & suitable mask must be worn.

TECHNICAL SERVICE

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