



Quality beyond Innovation

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POWERFIX PIE

Crack Injection Epoxy

DESCRIPTION

PowerFix PIE is a two component, low viscosity, moisture intensive epoxy resin based for crack injection system.

USES

PowerFix PIE can be used for sealing cracks in structural concrete such as columns, beams, foundations, decks, roadways and water retaining structures etc. It can be used for bolt anchors where the gap between bolt and pocket is not more than 4mm. It also bonds the concrete sections together restoring the original structural strength and integrity.

ADVANTAGES

- Low viscosity ensures deep penetration into fine cracks
- Improves bonding between two concrete surfaces and steel
- Long pot life
- Easy to apply

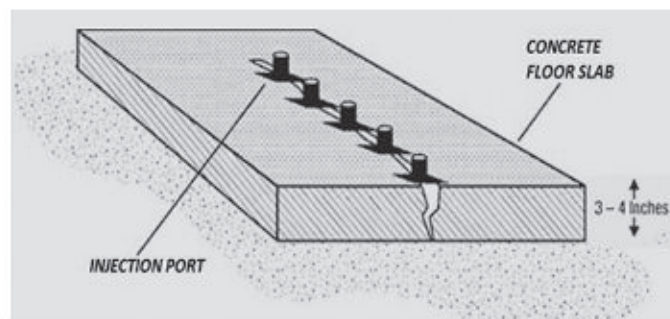
TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	–	Two Components
Mix Form	–	Liquid
Colour	–	Yellowish
Pot life	–	70mins
Compressive strength	BS 6319-2	55N/mm ² at 7 days
Flexural strength	BS 6319-7	20 N/mm ² at 7 days
Bond strength	ASTM D4541	>2.5 N/mm ² at 7 days

SURFACE PREPARATION

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.

Cracks should be open by using cutting discs with straight edges. Loose particles and dust should be removed from the cracks using suitable tools or equipment.



MIXING

Whole content of hardener is emptied into the base container and mixed thoroughly until a homogeneous mix is obtained. Slow speed drill machine with mixing paddle should be used for mixing. Mix for at least 2-3 minutes.

APPLICATION

Copper tubes are fixed into the pre-drilled holes. Spacing of the copper tubes should depend on the width and depth of the cracks. Copper tubes are placed in intervals to ensure that the materials fill in cracks and cavities completely. **PowerFix PIE** is used to seal cracks between the copper tubes on both sides through cracks and also for fixing of the copper tubes. Allow **PowerFix PIE** to harden for at least 5 hours before proceeding to inject **PowerFix PIE**. It can also be filled into horizontal cracks by gravity method.

For such applications, make sure that the crack is cut in "V" shaped by using cutting discs pour the material in "V" shaped cut and allow the material to flow inside the cracks. Excess material on the surface can be removed by scrapping.

PACK SIZE

3.0, 3.5 and 3.8 ltr per set

LIMITATIONS

PowerFix PIE should not be used in cracks which are likely to move. At higher temperatures the pot life of the material will be considerably shorter. It should not be used if there is running water during applications or before setting time of material. Part mixing of material should be avoided

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