



Quality beyond Innovation

Philippine SkyBird Industrial Corp.

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HYPERFLOW MGLE

Low Exotherm, Machine Grout Epoxy

DESCRIPTION

HyperFlow MGLE is a solvent free, highly flowable, three component epoxy resin grout specially formulated for mass grouting. Due to its low exothermic reaction, it is particularly suitable for grouting at high ambient temperatures.

USES

HyperFlow MGLE can be used for grouting heavy machinery base plates, compressors, generators, turbines, centrifugal pumps, bolt pockets, crane rails, bridge bearing, stanchion (steel columns) base plates, etc. it is used as a grout media to transfer dynamic load effectively. Ideal for chemical plants, refinery, oil and gas, water industry, structural encasing, etc.

ADVANTAGES

- Solvent free, no shrinkage
- Pre-packed, ready to use
- Highly mechanical strength
- Can be use from 10-150mm in single layer without Generating excessive exothermic
- Impact and vibration resistance
- Good chemical resistance

TYPICAL PROPERTIES at 25°C			
PROPERTY	TEST METHOD	VALUE	
Component		Three	
		Part A – Base	
		Part B – Hardener	
		Part C - Filler	
Mixed Form		Flowable	
Colour		Grey when mixed	
			Flowable
Compressive strength	ASTM C1107	1 Day	65 Mpa
		7 Days	100 Mpa
Flexural strength	ASTM C580	7 Days	30 Mpa
Tensile strength	ASTM C307	7 Days	16 Mpa
Bond strength	ASTM C882	7 Days	Concrete failure
Pot Life	ASTM C882	60 minutes	
Chemical Resistance	ASTM D543	Resistance to alkalis, fuels, acids, oils, etc.	
Effective Bearing Area	ASTM C1339	>85%	



SURFACE PREPARATION

Surface should be sound, clean, free from oil, grease, laitance and loose particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good adhesion. Steel surface should be clean and rust-free.

MIXING

Mix base and hardener thoroughly with a slow speed drill for 1 minute in a suitable container. Add the filler component slowly and continue mixing until a flowing uniform colour and consistency of grout is achieved.

FORMWORK

Make sure that the formwork is watertight. Sealant can be used to seal gaps between concrete and formwork.

APPLICATION

Place the mixed **HyperFlow MGLE** within the pot life. Bolt pockets should be grouted first. Stop the grout 5-10 mm below the surface of the bolt pocket. Baseplate grouting should be carried out continuously. Make sure to have sufficient grout in place before starting mixing. Pour the mixed grout from one side of the formwork to avoid air entrapped. It is recommended to use grout pump when large volumes are to be placed. During the grouting ensure entrapped air is able to escape through relief holes. Grout flow should not be interrupted.



PACK SIZE

10 ltr set & 50 ltr set

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.

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.