



Quality beyond Innovation

Philippine SkyBird Industrial Corp.

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HYPERFLOW 601

General purpose Cementitious Non-shrink Grout

DESCRIPTION

HyperFlow 601 is cement based, non-metallic, non-shrink, Hyper flowing grout

STANDARDS

ASTM C1107

USES

HyperFlow 601 can be used for grouting gaps between the base plates and concrete such as; bridge bearing, machinery base-plate, stanchion base plates, joints between precast and panels, rail and anchor bolts, etc. It can be used for restoring damaged structural elements by placing within the formworks.

ADVANTAGES

- Very flowable and self-levelling
- Ready to use, just add water
- Can fill complicated voids
- No segregation or bleeding
- Controlled expansion
- Easy to place



SURFACE PREPARATION

Surface should be sound, clean, free from oil, grease, laitance and loose particles. Saturate concrete substrate with water for at least 2-3 hours prior to pouring the grout. Removed all standing water before pouring the grout.

MIXING

HyperFlow 601 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 grout.

FORMWORK

Make sure that the formwork is watertight. Sealant can be used to seal gaps between concrete and formwork, alternatively, used a dry pack mixed of **HyperFlow 601** to fill up the gaps between concrete and formworks. Outlets should be provided for draining of water.

APPLICATION

Place the mixed **HyperFlow 601** within 10-15 minutes to achieve the full advantage of the expansion. 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

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	W/P	0.14	0.16
			Flowable	Fluid
Compressive strength	ASTM C1107	1 Days	22Mpa	20 Mpa
		3 Days	28 Mpa	25 Mpa
		7 Days	36 Mpa	35 Mpa
		28 Days	45 Mpa	40 Mpa
Flexural strength	BS6319	3-7 Days	5 Mpa	5 Mpa
		28 Days	6.5 Mpa	6 Mpa
Expansion (Plastic state)	ASTM C827	Up to 2.0% positive expansion		
Expansion (Hardened state)	ASTM C1090	0-0.3%		
Bleeding	ASTM C940	Nil		
Setting time	ASTM C191-01a	4-8hrs		

ensure entrapped air is able to escape through relief holes. Grout flow should not be interrupted.

PACK SIZE

25 kg bag

YIELD

13.0 ltr/25 kg bag with W/P of 0.16

CURING

Exposed surface of grout should be cured with wet burlap or moist hessian to prevent rapid drying and crazing.

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