



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

HYPERFLOW 1201PG

High Early Strength, Dual Expansion, precision grout

DESCRIPTION

HyperFlow 1201PG is a cementitious, high strength, precision grout with natural aggregates. It is formulated to provide extended working time and dual stage expansion to compensate for shrinkage in both plastic and hardened states.

STANDARDS

ASTM C1107

USES

- Stanchion base plate and columns
- Prefabricated concrete panels and beams
- Bridge bearing plates
- Anchor bolts and bars
- Underpinning
- Patch repair works

ADVANTAGES

- Very flowable and self-levelling
- Ready to use, just add water
- Can fill complicated voids
- No segregation or bleeding
- High early strength
- Positive 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 1201PG 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.

PACK SIZE

25 kg bag



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	0.15
		Flowable	
Compressive strength	ASTM C1107	1 Day	40 Mpa
		3 Days	60 Mpa
		7 Days	70 Mpa
		28 Days	80 Mpa
Flexural strength	BS6319-3	28 Days	9 Mpa
Expansion (Plastic estate)	ASTM C827	Up to 2.0% positive expansion	
Expansion (Hardened estate)	ASTM C1090	0-0.3%	
Bleeding	ASTM C940	Nil	
Setting time	ASTM C191-01a	4-6hrs	

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 1201PG** to fill up the gaps between concrete and formworks. Outlets should be provided for draining of water.

APPLICATION

For best result, **HyperFlow 1201PG** should be used within 15 minutes of the completion of mixing.

The substrate should be properly prepared and should be free from contamination, laitance and loose material. Thoroughly saturate the substrate with water at least 2 - 3 hours prior to pouring the grout. All free water ponding should be down out of the void just before pouring the grout.

As for all cementitious materials curing is essential to prevent rapid drying out of the grout and shrinkage

caused by the water loss. Curing should be affected by accepted methods such as curing compound, polyethylene sheet, wet Hessian or water ponding.

If a shaped shoulder is required it should be formed before the grout has reached its final set. Carefully remove the formwork once the **HyperFlow 1201PG** is self-supporting and cut the shape of the shoulder with a trowel. Preferably the shoulder should be cut to a 45° angle to minimize stresses.

NOTE

Use **HyperFlow 1201PG** for minimum gap of 10 mm and maximum of 100 mm. For thickness above 100 mm **HyperFlow 1201PG** can be mix with hard, clean, surface saturate dry (SSD), graded 10 mm aggregates in the ratio of 1:1 or 1:0.5 by weight depending on consistency required. Exact proportion should be determined by conducting site trials. Ambient temperature will affect setting time and strength gain. Use of chilled water will ensure better flow and retention properties.

YIELD

13.25ltr/25 kg bag with W/P of **0.15**

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

Typical hopper set up for grouting

