



Quality beyond Innovation

Philippine SkyBird Industrial Corp.

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HYPERFLOW 901TA

Cementitious Non-shrink Precision Grout For Deep Pour Applications

DESCRIPTION

HyperFlow 901TA is non shrink free flow grout that maintains a fluid consistency for long time. It contains special cements, graded aggregates and fillers with additives to have a control on bleeding, expansion in plastic and hardened state, low heat of hydration, etc.

STANDARDS

ASTM C1107

USES

HyperFlow 901TA is a free flowing precision grout designed for various types of applications like equipment base plates, stanchion(steel column)base plates, precast concrete panels, pipelines flanges, pipe's surrounding in concrete and brick walls, etc. It is designed to use in the thickness range of 30mm in single pour.

ADVANTAGES

- Flowable and self levelling
- High strength, low heat of hydration
- Dimensionally stable
- Expansion in both plastic and hardened state
- Chloride free
- Non stain-free of metallic aggregates
- Excellent initial flow and good flow retention
- Dense and impermeable grout providing water tightness.

SURFACE PREPARATION

Surface should be sound, clean, free from oil, grease, laitance and loose particles. Saturate concrete substrate with water for at least 3-4 hours prior to pouring the grout. Removed all standing water before pouring the grout.

MIXING

HyperFlow 901TA 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. A free Flowing and self levelling grout can be obtained with addition of 3.5 ltr. water



TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE	
Component	-	Single	
Form	-	Powder	
Colour	-	Grey	
Fresh Wet density	-	2.20 kg/ltr +/-0.05	
Consistency	ASTM C1107	Flowable	
Compressive strength	ASTM C1107	7 Days	45 Mpa
		28 Days	65 Mpa
Flexural strength	BS6319-3	28 Days	6 Mpa
Expansion (Plastic state)	ASTM C827	Up to 2.0% positive expansion	
Expansion (Hardened state)	ASTM C1090	0-0.3%	
Setting time	ASTM C191-01a	Initial: > 5 Hrs; Final < 10 Hrs	

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

APPLICATION

Place the mixed grout within 15 minutes to gain full advantage of the expansion. Bolt pockets should be grouted first. Stop the grout 5-10mm below the top surface of the bolt pocket. Grouting of base plate

should be carried out continuously. Ensure to have enough grout in place before starting. Start pouring the mixed grout from one side of the formwork to prevent entrapping of air. This can be achieved by pouring the grout to the shortest distance. It is advisable to use heavy duty diaphragm pump when large volumes are to be placed. During application ensure entrapped air is able to escape through relief holes. Maintain continuous head during the grouting. Grout flow should not be interrupted. Check for any grouts loss through the formwork or between any unsealed joints. Plug the same using HydroProof Plug.

Regarded as non-hazardous for transportation

TECHNICAL SERVICE

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

NOTE

Use **HyperFlow 901TA** for minimum gap of 30 mm and maximum thickness of 300mm in single layer. For thickness above 300mm, **HyperFlow 901TA** can mixed 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. Ambient temperature will affect setting time and strength again. Use of chilled water will ensure better flow and retention properties.

LIMITATIONS

HyperFlow 901TA should not be used in the unrestrained areas as it may lead to the cracking of grout. Shoulder space between baseplate and formwork should be as minimum as possible. Grout surface on the shoulders should be sprinkled with aggregates or restrained to minimize the cracks.

PACK SIZE

25 kg bag

YIELD

13.0 ltr/25 kg bag with W/P of **0.14**

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. Contact with skin, eyes, etc. Must be avoided. If swallowed seek medical attention immediately.