

PIOFLOW HS

High strength cement-based, free flow non-shrink grout

DESCRIPTION

PIOFLOW HS is high strength, non-oxidized, cement-based grout which requires only the addition of water to produce non-shrink & waterproofing flowable mortar. **PIOFLOW HS** contains selected Portland cements, special aggregates, shrinkage compensating materials and modifiers that permit it to be applied in an ordinary gaps of thickness range of 20-100 mm by pouring.

USAGES

- Grouting under machineries and equipment where vibration exists
- Filling voids & holes between new and old concrete
- Grouting under steel structures, pre-cast supports and other similar works
- Anchor different kind of fixings such as bolts, crane rails, stanchion bases, masts, and fence posts
- Bridges bearing, & other similar applications

TECHNICAL DATA

PIOFLOW HS	Typical values	
	Fluid	Flowable
Compressive Strength (ASTM C942)		
Day 3 (N/mm ²)	35	40
Day 7 (N/mm ²)	42	53
Day 28 (N/mm ²)	51	60
Flexural Strength (BS 6319)		
Day 28 (N/mm ²)	13	14
Setting Time (I-F) (ASTM C953)	4 – 6 hours	
Expansion (ASTMC940-10a)	0.05%	
Specific Gravity @20°C (wet)	2.1 – 2.2	
Pot Life @25°C	30 min	
Fresh Wet Density	2230±50	

STANDARDS

PIOFLOW HS is formulated to comply with:

ASTM C-1107: "Packaged Dry, Hydraulic – Cement Grout (Non-shrink)" Grade A as well as CRD C- 621.

ADVANTAGES

- Requires only addition of water on site at application time
- Non-oxidized, shrinkage compensated, fiber reinforced contains micro silica to enhance strength and durability
- Flowable consistency self-compacting enables it to flow in narrow confined holes
- High mechanical & high heat resistance properties
- Low permeability ensuring durability
- Non-toxic and does not contain any harmful ingredient
- Chloride and nitrate free
- High bond strength to concrete and steel
- Can be applied by pouring or pumping
- Formulated for the Middle East climate

USAGE INSTRUCTIONS

1. Surface preparation

All surfaces shall be sound, clean and free from dust, oil & grease or any contaminants that may affect the bond between the product and substrate. Absorbent surfaces shall be saturated thoroughly.

2. Mixing

The exact amount of water shall be put in a clean vessel (or mixer) and gradually add the powder while mixing. Continue mixing till homogenous consistency free from lumps is achieved. It is recommended to use an electric drill of maximum 400 – 500 rpm. It is not recommended to mix more than that you can place within 60 minutes, do not retemper to restore workability.

PIOFLOW HS	Fluid	Flowable
Water (Liters)/25 Kg bag	4.25	3.75
Yield (liters)	13.2	13.0

STORAGE & SHELF LIFE

PIOFLOW HS shall be stored in normal conditions away from extreme temperatures, and any source of moisture. Shelf – life is 12-months.

3. Placement

Pour the mixed materials onto the prepared substrate continuously from one side avoiding air pocket entrapment (allow the air to escape). If base plate grouting being carried out, voids should be eliminated by removing rodding, strapping.

4. Curing

PIOFLOW HS is cement-based grout, ACI recommendations should be followed during mixing, placement or curing. After placement, the grout shall be cured properly for 3-days (at least) or curing compound **ENECURE WB** can be used. Protect the placed grout temperatures.

PACKAGING

PIOFLOW HS is supplied in 25 kg bags.

HEALTH & SAFETY

PIOFLOW HS is non-toxic and non-hazardous, if material comes in contact with skin; cleaning with water and soap is recommended.

For Ecology: Do not dispose directly to water or soil, re-use it if possible or mix with water and wait until it hardens then bury it in landfill in accordance with national regulation.

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:
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