

Polyglaze®

PZ HSG 100 F

PRODUCT DESCRIPTION

Polyglaze PZ HSG 100 F is a cementitious, high strength, non - shrink, free flowing, polymer modified, high performance, high early strength precision grout. It is a ready - to - use dry mix with graded aggregates, shrinkage - compensating binders, and polymers. Designed for high strength and flowability, it offers excellent workability, consistency, and performance for precision grouting.

AREAS OF APPLICATION

- ◆ Precision grouting for machinery and foundations
- ◆ For cement, petrochemical, and fertilizer plants
- ◆ Supports bridge bearings and heavy equipment
- ◆ Suitable for fence posts and anchors

ADVANTAGES

- ◆ Highly fluid and easily placeable for convenient field application
- ◆ High strength for maximum load - bearing capacity
- ◆ Non-shrink with positive expansion for high - tolerance performance
- ◆ Non-bleeding and non - segregating at fluid consistency
- ◆ Chloride - free formulation to prevent corrosion of base structures
- ◆ Rapid strength gain reduces equipment installation downtime
- ◆ Excellent workability, cost - effective for large volumes

APPLICATION METHODOLOGY

Surface Preparation

- ◆ The substrate must be sound, rough, and free from oil, dirt, debris, paint, or other contaminants
- ◆ As a precautionary measure, remove all residues with a wire brush or pressure washing
- ◆ Pre - wet the substrate with clean water, particularly substrates with excessive absorption such as block walls
- ◆ Surfaces must be saturated surface dry (SSD) with no standing water
- ◆ Ensure surface and ambient temperatures are between 5°C and 40°C

Mixing

- ◆ Mix 40 kg of PZ HSG 100F with 5.2 L - 6.2 L of water for flowable consistency; for depths over 100 mm (e.g., bolt pocket grouting), add 15 -16 kg of gravel per 40 kg mix
- ◆ Use only the required amount of water to achieve the desired flow; avoid excess water, sand, or cement, as they may cause bleeding, segregation, or alter properties
- ◆ Ensure clean potable water for mixing with PZ HSG 100 F

Application

- ◆ Pour grout under the baseplate using straps to spread. Grout should be



placed at a minimum thickness of 25 mm and a maximum of 150 mm per lift when placed in a large mass

- ◆ Make sure the site temperature is near room temperature. Lower temperatures slow down the flow and make grouting harder, while high temperatures speed up the flow but reduce working time

Cleaning

- ◆ Clean the tools and equipments with water immediately after use. Delay in cleaning may require mechanical tools to clean as material becomes hard

Curing

- ◆ Cure PZ HSG 100 F properly for best durability: wet cure until formwork removal, then use high - solid curing compounds to prevent cracks
- ◆ After precision grouting, thoroughly cure the area with water and use wet hessian cloth if required

PACKAGING

- ◆ Polyglaze PZ HSG 100 F is available in 40 kg bags

STORAGE & SHELF LIFE

- ◆ Store in a dry place away from moisture and sunlight
- ◆ Best before 6 months from the manufacturing date in original sealed condition

PRECAUTIONS & LIMITATIONS

- ◆ Below 10°C, use warm water (30 – 40°C) to speed up strength
- ◆ Above 40°C, use cold water (under 20°C) for mixing grout
- ◆ Keep formwork for at least 36 hours if the temperature is under 10°C
- ◆ Follow normal working precautions similar to cement materials

TECHNICAL DATA SHEET

PHYSICAL PROPERTIES

Physical Appearance	Flowable Powder
Color	Grey
Bulk Density	1.35 - 1.38 g/cc
Water Mixing Ratio	13 - 15% by weight
Pot Life @ 27°C	Approx. 30 minutes
Application Temperature Range	5°C to 40°C
Setting Time	Approx. 4 - 6 Hours

PERFORMANCE PROPERTIES

PROPERTIES	STANDARD	PZ HSG 100 F
Mixed density (Paste)	-	Approx. 2000 Kg/m ³
Flexural Strength @ 28 Days	ASTM C 348	>8 MPa
Tensile Strength @ 28 days	ASTM 190	>4 MPa
Chloride Content		<0.02%
Compressive Strength		
1 Day		>40 MPa
3 Days	ASTM C 109 : 2021	>50 MPa
7 Days		>75 MPa
28 Days		Upto 100 MPa

YIELD

- ◆ Approx. 21 - 22 Ltr. for 40 kg bag

Note :

- ◆ Above values are under standard test conditions, variations may apply based on actual site or substrate conditions.
- ◆ The above test results were achieved under Standard Laboratory Conditions at Temp: 27 ± 2° C & Rh: 65 ± 5%.
- ◆ The mortar was tested at a consistency achieved by mixing 5.6 Ltr. of water with 40 kg of PZ HSG 100F.

HEALTH & SAFETY

- ◆ Use a respiratory mask and protective gloves during application.
- ◆ Clean hands with soap and water after application.
- ◆ Avoid contact with skin / eyes. In case of unlikely contact, rinse eyes immediately with plenty of clean water and cleanse skin with soap and lukewarm water. Seek medical advice if irritation occurs / persists.
- ◆ In case of unlikely swallowing, seek medical attention immediately.

Disclaimer:

The information in this TDS is for general guidance only. Specific advice for site conditions is available upon request. Details provided by the company are in good faith, when product is properly stored, handled, and applied under normal conditions. The site conditions, material compatibility, and workmanship are beyond our control, no warranties expressed or implied are given. The company accepts no liability for unsatisfactory results or consequential damages arising from product use.



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