



R5

NON SHRINKAGE GROUT

High Flow Non-Shrink Cementitious Precision Grout

GROUT

POLYEXTRA HF is a cementitious, pre-mixed, pre-packed chloride and hydrogen free, high flow, pourable grout. It contains cement, selected additives, well graded and non-reactive aggregates and is designed to give excellent flow properties, shrinkage compensation, frost resistance, and high compressive strength.

APPLICATION

POLY Grout HF is ideally designed for use in the follow- lng application:

- Machine beds.
- Bridge bearing pads and plinths.
- Pile cap reprofiling.
- Under machinery base plates, crane rails, stanchion plates etc.
- Anchoring of tie bars ,bolts ,and stressing cables.
- Under pinning.

ADVANTAGES

- Non-shrink grout that has dual expansion properties to compensate for shrinkage in both the plastic and hardened stage.
- Extremely dense and low permeability.
- High early strength development allowing for rapid installation.
- High flow can be poured or pumped into variable installa- tion.
- Easy to apply, single component which require only addition of water.

STANDARDS

POLY Grout HF complies with Scorps of engineers specifications CRD-C621-82A and ASTM C1107-91, TYPEC.

Thicknesses and size limitations:

- POLY Grout HF can be applied in a single layer at thicknesses between 10-100mm. For greater thicknesses, an 8-12 mm washed aggregate should be added at a ratio of 15 kg of washed aggregate to 25 kg of POLY Grout HF

TYPICAL PROPERTIES

Typical properties@ 3.5 liter/25 kg and a temperature of 25 ° C.

Compressive strength: To BS1881:part116*	≥46mpa@7days ≥61mpa@28days
---	-------------------------------

Color	Grey
-------	------

Setting time to BS4550: Initial@25 ° C	Approx5-6hours.
--	-----------------

Final@25 ° C	Approx7-8hours.
--------------	-----------------

Expansion characteristics: To ASTMC827-87	≤2%
--	-----

Flow characteristics (efflux time) toASTMC939-87	25-35second
---	-------------

CLEANING

All tools should be cleaned immediately after finishing with water. Hardened materials can be cleaned mechanically.

STORAGE

POLY Grout HF shelf life is 12 months if stored at temper ature between 2 ° C and 50 ° C.If these conditions are exceeded, POLYWED technical department should be contacted for advice.

PACKAGING

POLY Grout HF is available in 25kg bags.

NOTES

- At low temperature (below 8 ° C),warm water is recom- mended to achieve the early strength. And the formwork is recommended to be kept longer time.
- At high temperature (40 ° C and above),cold water(less than 20 ° C)must be used for mixing.

R5

POLYGROUT HF

High Flow Non-Shrink Cementitious Precision Grout

METHOD OF USE

Substrate preparation:

- The substrate should be sound, clean and free from contamination. Surface laitance should be removed by acid etching.
- All surfaces should be presoaked with clean water for a minimum of 4 hours prior to grouting.

MIXING

- To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.
- Depending on the consistency required, the addition of 3.5 liters of clean water should be added to a clean container. The 25 kg powder is then added slowly to the water while mixing continuously with a low speed mixer /drill (400-600rpm).
- Mixing should be continued for 3 minutes until a uniform consistency is obtained.

PLACING & FINISHING

Underbase plate:

Enough material should be available to achieve a continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to distance, a side shutter feed between 100 mm to 250 mm high should be erected and used to build the required head.

Formwork:

As the mixed grout possesses high fluidity characteristics, all formwork and shutters should be watertight. This can be obtained by using an appropriate mastic. The unrestrained areas should be kept to a minimum due to the expansive nature of POLY Grout HF.

CURING

Since POLY Grout HF is a cementitious material, it should be treated in a manner similar to concrete. Curing can be conducted by either using concrete curing compound.



LEGAL DISCLAIMER: Polywed endeavors to ensure that any advice, recommendations, information it may give, is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products, because it has no direct or continuous control over where or how its products are applied, whether or not in accordance with any advice, specification, recommendation or information given by us. Polywed has the right to change any of the specifications mentioned in the Technical data sheets upon its discretion without prior notification. Hard copies of the Technical Data sheets are printed once or twice a year, while our technical data sheets are continuously being updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated of the technical Data Sheets.