Polygrout EY 3000(HF)

High flow, high strength epoxy resin grout

withstand heavy static and dynamic loads in a wide variety of applications. Suitable for an application thickness upto 300mm.

CHARACTERISTICS

- Excellent flow characteristics.
- Excellent chemical resistance
- High tensile, flexural and compressive strength
- Early strength development.
- Excellent adhesion to steel and concrete.
- High resistance to dynamic loads
- Non-shrink and tolerant of damp surfaces.
- Adjustable consistency, excellent workability
- No priming required.
- Long pot-life.

DESCRIPTION

Polygrout EY 3000 (HF) is a free flowing non shrink solvent free low exothermic epoxy resin based grout. Polygrout EY 3000 (HF) is a combination of high performance epoxy resins, specially graded aggregates and additives withstand heavy static and dynamic loads in a wide variety of applications. Polygrout EY 3000 (HF) is suitable for an application thickness upto 300mm.

FIELDS OF APPLICATION

- machine base plate
- bridge bearing pads
- anchoring of crane rails, towers and dock sills
- anchoring of bolts and rebars in concrete, brick work, masonry and rock
- installation of reinforced concrete starter bars,
- foundation bolts and railway tracks
- all applications under conditions of high ambient temperature

APPLICATION INSTRUCTIONS

Surface preparation

Surfaces shall be structurally sound and clean of all contaminants like mould release agent, curing compound, grease, paint and cement laitance. The area shall be dry

and free of standing water. Surface cleaning by grit/captive blasting or wire brushing is recommended depending on the degree of contamination. A watertight shutter shall be erected all around the area where Polygrout EY 3000 (HF) shall be poured. Any gaps or openings below the formwork or on joints shall be sealed with a suitable mastic sealant or a rubber seal.

Caution: Resin leakage from the grout will result in segregation. The formwork shall be coated with a heavy duty mould release oil to ensure easy deshuttering.

Mixing

Mix Part A and Part B separately for a minute using a slow speed drill (3 00 - 400 rpm) fitted to a suitable paddle mixer. Then add part B into part A and mix t ho roughly for 1-2 m inutes. Add part C aggregates slowly into the mix and further mix for another for 3-4 minutes till a uniform and homogenous consistency is achieved.

Note: All parts are pre-w eighed and no part mixing is allowed.

Placing

Pour the mixed Polygrout EY 3000 (HF) immediately after mixing and within the pot life. The grout s hall be poured continuously from one corner or end to a void

entrapment of air. The material is self compacting, so no additional vibration is required. For congested are as it is recommended to lightly tamp the shutters with a rubber mallet to remove the entrapped air.

NOTE: The grout which has exceeded its pot life shall not be used and be discarded immediately.

CLEANING

All tools shall be clean ed with Polysolvent immediately after use. Hardened materials can be removed mechanically only.

STORAGE & SHELF LIFE

Store the material in a dry, cool and shaded condition. In tropical climates the product must be stored in an air conditioned environment. The shelf life of the product is up to 12 months when stored as per recommendation. Excessive exposure to heat, UV and sunlight will result in the deterioration of the quality of the product and reduce its shelf life

HEALTH & SAFETY

As with all construction chemical products caution should always be exercised. Protective clothing such as gloves and goggles shall be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

DISPOSAL

All disposal practices must be in compliance with all local laws and regulations.

SUPPLY

Polygrout EY 3000 (HF)	15L kit	wt 30 kg #

 # Approximate weight

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Color	Dark grey	
Density	2.08±0.05	
Pot life, [minutes]	60	
Compressive strength @7days, [N/mm^2]	≥90	ASTM C 579
Flexural strength @7days, [N/mm^2]	≥30	ASTM C 580
Tensile strength @7 days, [N/mm^2]	≥15	ASTM C 307
Adhesion strength @7 days, [N/mm^2]	≥3	BS 1881 ASTM D 4541
Hydrostatic water pressure @5 bar [50m]	No leakage	BS EN 12390
Chemical resistance	pH 2.5 to 11.5 sea water, hydrocarbon fuels	ASTM D 543
Application thickness, [mm]	10 [Min] 300 [Max]	
Application temperature, [°C]	5 to 35	
Service temperature, [°C]	5 to 70	

All values given are subject to 5-10% tolerance

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.
The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

Henkel Polybit Industries Ltd.; PO Box: 293, Umm Al Quwain, UAE
Tel:+971(6)76 70 777; Fax:+971(6)76 70 197; henkelpolybit@henkel.com
Henkel Polybit Industries Ltd.; PO Box: 5911, Dammam-31432, KSA
Tel:+96613808 4061 / 62, Fax: +966 13 812 1164; polybitdammam@henkel.com
www.henkelpolybit.com

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