

EP 310 F

Fast Setting, Polyester Resin Anchoring Grout

DESCRIPTION

EP 310 F is a specialist fast setting anchoring grout which combines, outstanding durability and anchoring properties. This anchoring grout is stronger than the concrete. It is used for anchoring reinforcing bars, dowels & holding down bolts. It can be used in a gap range of 5 - 25mm, for a depth up to 750mm and also used to repair larger voids where early strength gain is important

USES

- Foundation Bolts
- Reinforcement startup bars
- Balustrades
- Dowel Bars

FEATURES

- High early strength
- Tough, shrink-free & strong anchoring system
- Vibration resistant
- Resistance to heavy loads
- Corrosion resistant
- Can be placed wet and damp condition

PHYSICAL PROPERTIES

EP 310 F @ 27 ± 1°C

Pot life	Approx. 10 minutes
Mixed material density	Approx. 1.90 g/cc
Full cure	7 days

Compressive strength

BS 6319-Part-2

3 Hours	> 35 N/mm ²
1 day	> 55 N/mm ²
7 day	> 70 N/mm ²

Gel time

20°C	approx. 22 min
30°C	approx. 13 min
40°C	approx. 7 min

COVERAGE ESTIMATES

Pack size	Yield
1 kg	Approx. 0.5 litre/pack
Part A 250 g	
Part B 750 g	

APPLICATION INSTRUCTIONS:

Hole preparation:

Drill the correct size of hole in the concrete base and clean it thoroughly. Optimum performance can be achieved by rough sided dust free holes. Cast hole should preferably be inverse dovetail configuration for better anchorage.

Bar preparation:

Bar should be free from oil and grease, and all flaky rust should be removed.

Anchoring depth design criteria

Characteristic concrete strength (N/mm ²)	20	25	30
Permitted concrete shear stress using Type One Bar (N/mm ²)	1.8	2.0	2.2
Bar Diameter (mm)	Approx. Yield (tonnes)	Hole Diameter	Minimum Hole depth (mm)
12	5.1	20	275
16	9.2	20	485
20	14.3	25	610
25	22.4	32	745
32	36.8	38	1030
40	57.5	45	1360
			1220
			1110

Mixing

Both Part A and Part B components should be thoroughly stirred before being mixed together. The entire contents of the Part A should be poured in a mixing vessel and add Part B. Mix thoroughly using a mechanical mixer to achieve a smooth homogenous mix. Part mixing should be avoided.

Approx. weight of EP 310 F grout required in grams for 100mm

Hole Diameter (mm)	Bar Diameter In (mm)					
	12	16	20	25	32	40
20	48	..	..	..	..	..
25	95	76	..	..	..	..
32	152	133	114	..	..	..
38	..	228	190	143	..	..
45	..	..	285	247	190	..
50	..	..	..	342	285	171
62	..	..	..	..	532	428

Placing of Grout

The mixed grout should be poured into the prepared hole well within the gel time of the grout. Anchor bolt/ reinforcement rod should be pressed into the hole to the required depth immediately after the grout is poured. Slight twisting action is recommended for full contact of grout and maximum bond. The bar should be left undisturbed in the required position until the resin is set completely.

Cleaning

EP 310 F can be removed from tools and equipment by using RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

STORAGE AND SHELF LIFE

EP 310 F has a shelf life of 6 months if kept in a dry, clean store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

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PRECAUTIONS

During mixing and application the following precautions should be observed: Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.



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