

Ozone Epofix

Two component epoxy anchoring grout.

Description

Ozone Epofix is a two component epoxy anchoring grout supplied in pre-measured quantities. The material cures quickly to give consistent, high performance anchorages. The two versions of Ozone Epofix are available.

Pourable grade use in vertical down holes where the hole is 8 to 40 mm greater in diameter than the bar. Thixotropic grade use in overhead or horizontal holes where the hole is up to 25 mm greater in diameter than the bar. The thixotropic nature of Ozone Epofix reduces flow of grout out of the hole.

Primary applications

Ozone Epofix mix and place anchoring grouts are used for anchoring of steel bars into concrete, brickwork, masonry and rock.

Recommended applications include:

- Installation of starter bars
- Base plate bolts
- MOT Bolts
- Installation of balustrades
- Installation of barriers and safety fences
- Installation of tie bars.

Advantages

- Low creep characteristics under sustained loading.
- Vibration resistant.
- Non-shrink and hence ensures complete surface contact and bond.
- High compressive, tensile and flexural strengths.
- Fast convenient installation with rapid strength gain.
- Increase flow ability
- Two grades.

Properties

The following results are typical for the hardened grout at 20°C.

Compressive strength(BS 6319, Part 2: 1983)	57 N/mm ²	1 day:
	66 N/mm ²	3 days:
	83 N/mm ²	7 days:
Tensile strength(BS 6319, Part 7: 1985)	12 N/mm ²	7 days:
Flexural strength(BS 6319, Part 3: 1990)	26 N/mm ²	7 days:
Shear Strength : (BS 2782: Pt 2)	36N/mm ²	7days
Bond strength(ASTM C-882)		
Concrete	4N/mm ²	
Steel	15N/mm ²	
Density:	2000 kg/m ³	
Application time:	20minutes	
Chemical resistance:	Oil, grease, fats, most chemicals, mild acids and alkalis, fresh and sea water.	

Packaging

3kg,5kg unit

Storage

Store in a dry and cool place below 35°C. Protect from direct sunlight.

Shelf life

12 months if stored properly in original unopened packaging.

Instructions for use

Minimum Hole Depth:

Characteristic concrete strength (N/mm ²):	20	25	30	> 40		
Permitted concrete shear stress using Type One Bar(N/mm ²):	1.8	2.0	2.2	2.5		
Bar Yield Hole diameter (tonnes) diameter (mm)						
			Minimum hole depth (mm)			
12	5.2	20	280	250	225	200
16	9.3	20	490	445	400	355
20	14.5	25	615	555	500	440
25	22.6	32	750	675	615	540
32	37.0	38	1035	930	845	745
40	57.8	45	1365	1225	1115	980

Hole preparation and formation

Optimum performance of Ozone Epofix grouts requires rough sided, dust-free holes. Use of rotary percussive drills with air or water flushing is recommended. Diamond drilled holes should be under-reamed or the surface roughened with a drill steel. Cast holes should preferably be of inverse dovetail configuration. If parallel sided holes are cast they should be rough to provide adequate keying.

Bar preparation:

All bars should be deformed. They should preferably be degreased and all flaky rust removed.

Mixing:

A complete pack of resin and catalyzed filler should be mixed in one operation. Mixing may be carried out manually or mechanically. When a smooth, even consistency is achieved the grout is ready for use and should be placed well within the gel time of the grout. Packs have been designed to produce practical and economic volumes of grout.

Do not attempt to mix partial pack components.

Pouring:

The mixed grout should be poured steadily from one side only to eliminate the entrapment of air. Continuous grout flow is essential. Sufficient grout must be available prior to starting. The time taken to pour a batch should be regulated to the time taken to prepare the next batch. To pour a batch should be regulated to the time taken to prepare the next batch.

Consumption:

Volume of Ozone Epofix required in ml for each 100 mm of bond length.
(200 mm bond length is the minimum recommended.)

Hole diameter mm	Bolt diameter mm					
mm	12	16	20	25	32	40
20	25					
25	50		40		25	
32	80		70		60	
38			100		100	
45					150	
50					180	
62					280	
					225	

These figures allow for a 25% wastage factor.

Cleaning & Disposal

All tools and equipment should be cleaned immediately after use with Ozone Solvent .

Precautions & Limitations

Keep away from sources of ignition - no smoking. In the event of fire extinguish with CO² or foam.

Health & safety

In common with most epoxy resin systems, the Ozone Epofix range will react exothermically when mixed and left in bulk. The heat generated may be excessive and can lead to vapour emission and splash damage to adjacent. To reduce the risk of exotherm, these products should only be mixed when ready for use and then applied without delay. Any unused residue should be poured onto a disposable impervious surface, in a well-ventilated area, to allow cure before disposal.

WARRANTY: Ozone products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale. Ozone makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its products and excludes the same. If any Ozone product fails to conform with this warranty, Ozone will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made period from the date of the claimed breach. Ozone does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ozone's installation information or instructions in its product literature or on its packaging labels. The user of the Ozone products must test the products for suitability for the intended application and purpose before proceeding with the full application of the products.