



**AERO**<sup>TM</sup>  
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

## AEROFIX FAST SET

A two pack high strength, fast set thixotropic polyester resin grout

### Description

AEROFIX FAST SET consists of a low viscosity polyester resin plus a catalysed filler. The two components are mixed to produce a filled resin grout which may be poured or pumped into suitably prepared anchor holes. The mixed grout is colored grey. AEROFIX FAST SET for the anchoring of steel bars and bolts into concrete, masonry, stone and brickwork where speed of installation and early load bearing capacity is required.

### Uses

AEROFIX FAST SET are used for high strength corrosion resistant anchoring of bolts and bars from 10 - 50mm diameter into concrete, rock, masonry or brickwork where high speed of installation and early application of load is required. Permanent installation of reinforcement starter bars, foundation bolts, base plates, balustrading, barriers and safety fences, railway tracks, tie-back anchors, reinforcement dowelling abutments, ground anchors for towers, cranes, dock sills.

### Advantages

- High early and rapid strength gain
- Corrosion resistant
- Weather resistant
- Can be used in damp conditions
- Fast setting and self curing
- Non expansive
- Vibration resistant

### Instruction for use

#### Surface Preparation

Hole should be formed using rotary percussive drilling techniques. Diamond drilled holes should be scabbled or undreamed. Pre-cast holes should have roughened sides. All dust and drilling debris should be removed. Bars and bolts should be degreased and all rust removed.

#### Mixing

A complete pack of resin and catalysed filler should be mixed in one operation. Mixing may be carried out 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 ( See properties).

Packs have been designed to produce practical and economic volumes of grout. Do not attempt to mix partial pack components.

### Typical Properties & Specifications:

Sr.No	Properties	Specification
1	Physical Appearance	Grey paste (mixed)
2	Pot Life @ 30 °C	15 - 20 mins.
Compressive strength at		
3	1 day	65 N/mm <sup>2</sup>
4	at 7 days	85 N/mm <sup>2</sup>
5	Density	1800 kg/m <sup>3</sup>
Tensile Strength at		
6	7 days	17 N/mm <sup>2</sup>
Typical Anchor Properties @ 30°C Anchor Strengths		
	Length of Anchor BOND (mm)	Unaxial Pull Out Load (tones)
7	100	3
8	200	8
9	400	16
10	600	24

### Application

Pour mixed grout into prepared holes, rodding if necessary to ensure grout flows to the bottom of the hole. Once grout has been placed insert bar into hole and gently twist and press home to the required depth. The bar should be left undisturbed until the grout has hardened.

### Estimating

Table indicates volume of AEROFIX FAST SET polyester resin grout in cm<sup>3</sup> /100mm bond.

Hole diameter Mm	Bolt diameter Mm
	12 16 20 25 32 40
20	25
25	50 40 25
32	80 70 60 40
38	100 100 75 45
45	150 130 100 45
50	180 150 90
62	280 225

These figures allow for a 25% wastage factor. If the anchor is in very old concrete, masonry or brickwork the wastage factor should be increased.



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### Tools Cleaning

Tools and equipment can be easily cleaned with a TECH TOOL CLEANER.

### Packing

AEROFIX FAST SET is supplied in 1 kg. pack.

### Shelf Life & Storage

AEROFIX FAST SET has a shelf life of 6 months from date of manufacture when kept at a temperature between 5 °C to 45 °C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

### Quality Assurance

AERO CONCHEM LLP is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2008 certified.

### Health & Safety

AEROFIX FAST SET is a resin based product. Resins and solvents may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when mixing, using and cleaning. Ensure adequate ventilation to prevent inhalation of vapours. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use Solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately. Full health and safety data are given in Product Safety Data Sheet.

### OUR RANGE OF PRODUCTS



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