



ANCHOR GROUTS



ANCHOSINE P FIX

Polyester resin anchoring grout

Description

ANCHOSINE P FIX is a two component polyester anchoring grout supplied in pre-measured quantities. The material cures quickly to give consistent, high performance anchorages.

Advantages

- Easy to mix and apply and rapid strength gain
- Vibration resistant
- Corrosion resistant
- Non-expansive
- Can be placed underwater
- Increased flow ability
- Two grades specifically for vertical and horizontal / overhead use

Uses

ANCHOSINE P FIX 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

Compliance Standard

- BS-6319: part 2-1983, BS-8110, IS-8110, ASTM-1512

Technical Information

PROPERTIES	RESULTS
Mixed appearance	Light green color
Mixed density	2.1 to 2.2 gm/cc
PH value	7 to 8
Compressive strength	>75N/mm ² @ 1 day >95 N/mm ² @ 7 days
Tensile strength	>18 N/mm ² @ 1 day >23 N/mm ² @ 7 days
Flexural strength	>45 N/mm ² @ 1 day
VOCs	5.5 gm/lit

Properties

The following results were obtained at a temperature of 20°C unless otherwise stated.

TEST METHOD	STANDARD	RESULTS																		
Testing of anchoring products by pull out method (EN 1504-6)	EN 1881:2006	Displacement < 0.6mm @ 75KN bad																		
Determination of creep under sustained tensile load(EN 1504-6)	EN 1544:2006	Displacement < 0.6mm continuous 50KN bad																		
Chloride ion content (EN 1504-6)	EN 1015-17:2000	< 0.05%																		
Compressive Strength	EN 12190	>28 days 100MPa																		
Tensile Strength	BS 6319 Pt.7	>28 days 11 MPa																		
Flexural Strength	BS 6319 Pt. 3	>28 days 19 MPa																		
Gel time / minimum loading time		<table border="1"> <thead> <tr> <th>Temp °C</th> <th>Gel Time</th> <th>Min</th> </tr> <tr> <th>loading time (hrs.)</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>5</td> <td>130</td> <td>12</td> </tr> <tr> <td>10</td> <td>65</td> <td>5</td> </tr> <tr> <td>20</td> <td>25</td> <td>2</td> </tr> <tr> <td>30</td> <td>10</td> <td>1</td> </tr> </tbody> </table>	Temp °C	Gel Time	Min	loading time (hrs.)			5	130	12	10	65	5	20	25	2	30	10	1
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Chemical Resistance		The cured resin is resistant to fresh and salt water, petrol, oils, grease and most acids, alkalis and solvents. Consult Redwop Technical Services for specific chemical resistance																		

Clarification of property values: The typical properties given above are derived from laboratory testing. Results derived from field applied samples may vary.

REDWOP CHEMICALS PVT. LTD.

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Selection of grout version

The version of ANCHOSINE P FIX grout chosen will depend on anchor conditions.

Parameters of anchor design

The high strength of the cured resin permits strong anchors to be created. Ultimate strength is varied by:

- Strength of host material
- Length of resin bond to bar
- Hole preparation and formation

Hole preparation and formation

- Optimum performance of ANCHOSINE P FIX 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.

Installation

Using the calculated volume of grout based on the estimating guide table, the grout should be poured steadily into the prepared holes. The anchor bar is then pressed into the hole to the required depth; slight agitation will assist in achieving a complete bond. The bar should be left undisturbed in the required position until the resin gets set.

Packaging

- ANCHOSINE P FIX is supplied in 500 gm., 1Kg & 5Kg set.

Storage

- Shelf life of 6 months at 20°C but it will be reduced at higher temperatures so, store in room temperature and in dry places.

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