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.

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

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

Product Standard Compliance:

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

Company Standard Compliance:

Technical Information:

Properties	Specification
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
Pull-Out Resistance	~22 MT/ running meter in 1 day at +22°C
Mixing Ratio (Base : Hardner)	1:4

Properties:

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

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 after 3 months of
Chloride ion content (EN 1504-2006) (EN 1015-17:2000)	< 0.05%
Compressive Strength(EN 12190)	> 100MPa @ 28 days
Tensile Strength (BS 6319 Pt.7)	>11 MPa @ 28 days
Flexural Strength (BS 6319 Pt. 3)	>19 MPa @ 28 days
Chemical resistance	The cured resin is resistant to fresh and salt water, petrol, oils, grease and most acids, alkalis and solvents.
Gel time / minimum loading time Temp°C Gel Time (min) Loading Time (hrs)	Mixing Ratio by weight - Powder : Liquid - 4 : 1 5 10 20 30 130 65 25 10 12 5 2 1
Bond Strength	>2.5 N/mm^2

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

Design Criteria:

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

Application instructions:

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:

ANCHOSINE P FIX

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 get set.

Packaging:

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

Storage & Shelf-life:

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.

Precautions:

Fire resistance and creep

At operating temperatures above 40◦C, the creep of ANCHOSINE P FIX polyester resin grout resin under load may become signifi cant. Resin anchors should not be used where structural load bearing performance has to be maintained in anchors subjected to fire conditions.

Health and safety instructions

Confined areas must be well ventilated and no naked fl ames allowed. Contact with the skin should be avoided as certain sensitive skins may be aff ected by contact with the polyester resin. In such cases if contact with the resin occurs, the skin should be washed immediately with soap and water - not solvent. Gloves and barrier creams should be used when handling these products. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

Fire

ANCHOSINE P FIX polyester resin grout resin is fl ammable.Do not smoke during use.

It is the practice of increasing efficiency with which buildings use resources- energy, water and materials-while reducing building impacts on human health and the environment.

ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.

ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations,Demonstrate commitment to quality, and Identify and improve processes that lack consistency.

ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance

This symbol is used to identify Redwop products which give off a low level of volatile organic compounds(VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

Our Commitment To The Environment Redwop products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.

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