

OXILOK SET

Polyester resin anchoring grouts

Description

Oxilok Set consists of pre-measured, two pack, filled polyester resin grouts. The two components are polyester resin and a filler. The standard version, having longer gel times suited to hot weather working conditions, comprises of Oxilok Set V for vertical downward holes and Oxilok Set H for horizontal and overhead holes

Advantages

- Vibration resistant
- Corrosion resistant
- Tolerant of wet and damp conditions
- Can be placed underwater and in damp conditions
- Ultra rapid strength gain
- Non expansive
- Pre-weighed components ensure consistent performance of the grout

Uses

High strength corrosion resistant heavy-duty anchoring. These anchors include bolts, tendons, or dowels in drilled or formed holes located in concrete masonry, brickwork or natural rock. Permanent installation of reinforcement starter bars, foundation bolts, balustrading, barriers and safety fences, railway tracks, ground anchors for towers, cranes, dock sills etc.

Design Criteria

The version of Oxilok Set grout to be used will depend upon ambient temperature and anchor conditions. The high strength of the cured resin permits strong anchors to be created. The ultimate bond strength developed depends upon:

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

Technical Properties

Gel life

@ 20°C	: 35Minutes
@30°C	: 20 minutes

Compressive Strength, N/ mm²

(BS 6319 part 2 1983)

	@ 23°C	@50°C
1 hr.	60	70
3 hrs.	65	80
1 day	75	100
3 days	85	105
7 days	100	110

Tensile Strength : >14 N/ mm²

(BS 6319 part 7 1985)

Flexural Strength, : >14 N/ mm²

(BS 6319 part 3 1990)

Application instructions

Hole preparation and formation

Three methods of hole formation are possible.

1. Optimum performance of Oxilok Set grouts requires rough sided, dust free holes. These can be made by using rotary percussive drills followed by oil-free air or water flushing.
2. Diamond drilled holes should be underreamed.
3. Cast holes should be of inverse dovetail configuration. If parallel sided holes are cast, they should be rough enough to provide an adequate mechanical key.

Bar preparation

1. All bars should be deformed. This will ensure good bond between the bar and the grout.
2. Bars should be degreased, and any rust if, to be removed.

Mixing

Only a complete pack of resin and catalysed 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. It must be placed well within the gel time of the grout.

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Shelf life

Oxilok Set has a shelf life of 12 months, when stored in warehouse conditions below 25°C

Cleaning

Oxilok Set can be removed from tools and equipment using Oxisolvent 100.

Health and Safety

Oxilok Set and Oxisolvent 100 are flammable. Keep away from sources of ignition - no smoking. In the event of fire extinguish with CO₂ or foam.

Information

Al Majara Polychem Ind LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable care it's taken compiling this technical data sheet, all recommendations regarding the use of product are made without guarantee since the conditions used are beyond the company' direct control. It is the customer responsibility to satisfy themselves that each product is fit for the purpose for which they indent to use it.

Supply

1 Litre Pack
 (Special packings are available on request)

Table indicates volume of Oxilok set grout in cm³ per 100 mm bond.

Volume of grout for bolt diameter								
Hole Diameter (mm)	12 mm	16 mm	20 mm	25 mm	32 mm	38 mm	44.5 mm	51 mm
20	25							
25	50	40	25					
32	80	70	60	40				
38		100	100	75	45			
45			150	130	100	70		
51				180	150	120	75	
57				235	200	170	130	80
64				300	280	250	200	160
76					425	400	350	300

Above mentioned figures allow for a 25% wastage factor.

Quality Matters

All products originating from Al Majara Polychem Ind. LLC are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9000, ISO 14001 and OHSAS 18001.

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