

Polyester resin anchor grout

Uses

Lokset Anchor Pack is a pourable resin grout formulated for grouting machinery anchor bolts and is available in two grades - fast and standard.

Advantages

- Rapid strength gain.
- Suitable for dynamic loading applications.
- Corrosion resistant.
- Not affected by mine water.
- Temperature tolerant.

Description

Lokset Anchor Pack is a two part flowable product consisting of a polyester resin and a catalysed filler. It is formulated for ease of mixing and placing and can safely be used where the difference between the anchor bolt and hole diameter does not exceed 25 mm.

Design criteria

The efficiency of the anchoring system is determined by the following:-

- Resin strength and bond length.
- Strength and competence of host rock.
- Hole preparation
- Type and dimensions of bar.

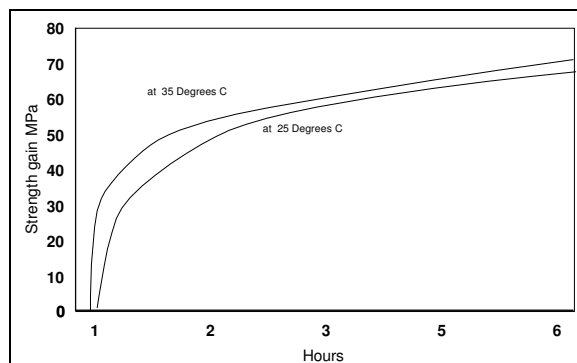
Properties

Load capacity

On a 25 mm diameter anchor bolt, a load in excess of 250 kN / 100 mm of bar length can be expected in competent rock.

Compressive strength

Standard Set



Pot life

Temp °C	Standard		Fast	
	Set Time (Mins)	Load Time (Hours)	Set Time (Mins)	Load Time (Hours)
5	60	3	40	2
25	25	2	15	1
35	15	1	5	½

Application instructions

Hole preparation and formation

Optimum performance of Lokset Anchor Pack requires rough sided, dry, dust free holes. Use of rotary percussive drills with air or water flushing is recommended.

Bar preparation

All bars should be cleaned and dry before use, and free of rust or corrosion.

Mixing

Mixing may be carried out manually or mechanically. Remove the tin of resin and bag of filler and use the plastic bucket for mixing. Empty the resin from the tin into the bucket and add the entire contents of the filler bag. Mix for at least two minutes until the materials are well blended. The wall of the pail should then be scraped down to ensure that unmixed components do not remain around the side. Mixing should continue for another two minutes. When a smooth, even consistency is achieved, the Lokset Anchor Pack is ready for use and should be placed well within the pot life of the material.

Installation

The required amount of grout should be poured steadily into the prepared holes. The anchor bar is then pressed into the hole to the required depth and agitated to expel air bubbles and assist in achieving a complete bond. The bar should then be left undisturbed in the required position until the resin is set.

Cleaning

All tools and equipment employed with Lokset Anchor Pack should be cleaned with solvent immediately after use.

Estimating

Pack size

Lokset Anchor Pack	5,0 litres
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Filling guide to Lokset Anchor Pack quantities

* The table indicates the volume of grout required in cm³ per 100mm of bond length

Volume of grout for bolt diameter								
Hole dia mm	12 mm	16 mm	20 mm	25 mm	32 mm	38 mm	44,5 mm	51 mm
20	22							
25	42	32	20					
32		66	54	34				
38			90	70	36			
45				121	87	50		
51					136	100	54	
57					192	156	110	56
64							183	129
76								274

* Includes wastage at 10%

Storage/Shelf Life

Lokset Anchor Pack : 6 months

Storage conditions

Store in a cool, dry place away from direct sunlight.

Precautions

Health and safety

Lokset Anchor Pack resin is flammable, do not expose to naked flames or excessive heat. Contact of resin and filler with skin should be avoided, gloves and goggles should be worn when using this product. Eye contamination must be washed immediately with water and medical attention sought. Refer to the Material Safety Data Sheet.

Due to the flammable nature of the resin, confined areas must be well ventilated. If this is not possible, mix the grout in a ventilated area before using.

Technical Support

Minova RSA gives a technical advisory service supported by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

Additional information

Minova RSA is a market leader specialising in the supply of high performance chemical products for the mining and tunneling industries. Lokset Anchor Pack is manufactured in accordance with the requirements of ISO 9002.

Minova RSA range of mining products includes anchoring and backfill systems, bagged cement products, high yield grouts, mine sealants, equipment and accessories, for which a brochure is available on request.

Important note

Minova RSA products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Minova RSA endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

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