

A flexible coating for support and protection against weathering designed for spray application.

Uses

Tekflex coating is a high tensile strength flexible coating suitable for the following applications :

- consolidation of loose rock surfaces
- protection against weathering
- construction of ventilation walls

Advantages

- **Simple Mixing** - Convenient packaging of liquid and powder components minimises mixing errors, no further addition of water is required.
- **Flexible** - Ability to stretch and deform, tensile characteristics with the option of fibre reinforcing to assist in maintaining coating integrity after strata deformation.
- **Adhesion** - High degree of adhesion permits permanent effectiveness on most rock surfaces.
- **Non-flammable** - Water based, no special storage or ventilation requirements, equipment clean-up procedures, or waste disposal, are required.

Description

Tekflex coating is a cement modified polymer coating with good flexibility, and tensile strength with excellent adhesive qualities. The product forms a flexible barrier and support membrane that enables the rock to retain its initial integrity by eliminating the degrading effects of scaling, spalling and weathering. Tekflex is available in black or white, with or without additional fibre reinforcement for added tensile strength.

Properties

Pot Life : 30 minutes at 30°C, 60% RH
 Relative Density (RD) : 1.10 - 1.28
 Drying Time (Touch Dry) : 1 hour
 Tensile Strength (MPa) : 3.0 - 5.0

Standards Compliance

Fire Classification : SABS 0177 Pt. 111-1981 Class 2
 Fire Toxicity : Meets requirements of NES 713 - Toxicity of Combustion Products.

Packaging

Tekflex is supplied as a two part pack of liquid and powder in one 20 litre container as follows:

TEKFLEX				
	BLACK		WHITE	
	no fibre	F (fibre)	no fibre	F (fibre)
PACK SIZE (kg)	18	16.8	18	18
POWDER (kg):	6	4.8	6	6
LIQUID (kg):	12.0	12.0	12.0	12.0
YIELD (ℓ):	14	15	14	15
COVERAGE (m ²) (Approx.)				
3mm:	4.5	5	4.5	5
2mm:	7	7.5	7	7.5
Tensile Strength psi, 30°C, 65% RH				
4 hour:	40	60	20	40
24 hour:	250	300	200	300
7 days:	450	525	400	600
28 days:	550	650	500	700

Note: 1MPa approximates to 145 psi

Instructions for Use

No special ventilation requirements are needed during application. Workers should take general precautions including wearing of protective clothing, gloves, dust masks, and adequate eye protection.

1. Remove or protect any objects that are not to be covered with Tekflex coating.
2. Remove as much dust and loose material as possible. Spray onto a dry, dust-free substrate for best results.
3. As Tekflex may be mixed and sprayed using various types of equipment, follow the instructions for the particular equipment you are using.

Notes:

- a) The best time to spray is right after excavation, when rock is first exposed.
 - b) Rock temperature should be 20°C, or higher, ideal is roughly 30°C.
 - c) The practical thickness achievable will depend somewhat on the orientation of the rock. Suggested thickness is 3mm. In no circumstances should the thickness be reached where the material sags or slumps, as this can affect the bond at the point of contact. Should this occur, allow the material to set before reapplication.
4. Pot life is approximately one half hour dependent on ambient temperature. Water may be used for clean up during this time. Warmer temperatures will shorten pot life and accelerate setting.
 5. Thoroughly purge all Tekflex material from the machine and lines with water when preparing for clean-up, follow any machine manufacturer's recommendations.

Shelf-Life

Both components: 12 months unopened, in cool, dry conditions.

Consult your local Minova RSA representative for additional information.

Precautions

Health and Safety

Tekflex is alkaline. The use of gloves and goggles is recommended. Splashes must be removed from the skin and eyes by washing with clean water. In case of splashes in the eyes, medical attention should be sought immediately. Refer to Material Safety Data Sheet.

Technical Support

Minova RSA provides a technical advisory service 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 tunnelling industries.

The Minova RSA range of mining products includes anchoring and backfill systems, bagged cement products, high yield grouts, mine sealants, equipment and accessories.

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.

Minova RSA
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Minova RSA

trading name of Stratabolt (Pty) Ltd

Reg No. 2001/027226/07

Cnr Anvil & Brewery Roads

Isando

P.O. Box 52

Isando, 1600. South Africa

Tel: +27 (11) 923-1900

Fax: +27 (11) 923-1935

Email: info@minovarsa.co.za

Web: www.minovainternational.com



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