

# Tekflex® Product Data



Solutions from Materials Technology





## Tekflex®

Minova manufactures and supplies an extensive range of sprayed support and sealing systems for use in a large range of applications in mining and civil engineering, including Tekflex® (TSL – Thin Spray-on Liner). Tekflex® was developed in Australia in 1999/2000 for specific use as an alternative to the use of steel mesh for scab control in underground mining excavations. Since that time Tekflex® has been successfully applied in a large range of applications in mining and civil construction.

Tekflex® is safe to handle and apply using conventional systems and can be hand applied or mechanically applied. No specific ventilation requirements are necessary for the application of Tekflex®, with only conventional PPE required.

Tekflex® provides several benefits over the use of steel mesh including:

- Sealing of the rock surface against weathering
- Not effected by corrosion
- Active surface support rather than passive support

Tekflex® has been successfully used over the past 9 years for applications including:

- Rock surface support and scab control in development roadways
- Rock surface sealing and support in escape ways and ventilation shafts
- Water sealing for seasonal water ingress
- Sealing of ventilation devices to improve efficiency
- Longwall face support for install and take-off roadways
- Tunnel lining between shotcrete/concrete layers

Full training procedures exist for the application of all Minova Systems including Tekflex® and comprehensive training and assessment by qualified Minova representatives is available to all customers. It is highly recommended that the individual product training procedure be reviewed prior to the application of any Minova product. In addition, on site quality control programs can be specifically developed and managed to suit individual customer requirements, ensuring the consistent quality of applied products.



## Product Information

Tekflex® is a high strength cement based TSL (Thin Spray on Liner) specially designed to permanently stabilise the integrity of rock structures whilst accommodating the stresses associated with strata movement and providing a barrier to moisture degradation.

- Available in black or white
- Excellent tensile strength with high flexibility maintains coating integrity
- Excellent adhesion to rock surface assures long life coating
- Easily applied using standard equipment
- Non-toxic and non-flammable
- No unusual storage or ventilation requirements during application, clean up or waste disposal

<b>Pumping Life @ 20°C (minutes)</b>	25 – 30
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<b>Initial Set Time (minutes)</b>	50 – 60
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## Surface Preparation

All surfaces should be cleaned down prior to the application of Tekflex®. This is normally achieved with the use of water to remove surface debris and dirt. It is important that any water to be used for surface preparation be free of contaminants such as oils and lubricants.

## Yield

One bag and two pails produces 14 m<sup>2</sup> of a 4 mm thick coating.

## Storage

### Shelf Life

Tekflex® has a shelf life of 12 months when stored in dry conditions. High temperature and high humidity may reduce the shelf life.

### Storage Conditions

Tekflex® should be stored in original packaging under dry warehouse conditions. If products are to be stored underground they should be stored in a dry area, free from water ingress.

## Health and Safety

Tekflex® is non-toxic and non-flammable.

- Irritating to respiratory system and skin
- Risk of serious damage to eyes
- Do not breath dust, use suitably approved dust mask
- Avoid contact with skin and eyes
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice
- After contact with skin, wash immediately with plenty of clean water
- Wear suitable protective clothing, gloves and eye/face/breathing protection
- Refer to individual MSDS for further information



## Product Service Support

Minova provides a full service support package to customers, including underground pull testing, operator awareness training, underground audits and stock control assistance. Each service package is developed to suit the individual customers requirements.

All aspects of Minova's product service support service is provided by experienced trained and qualified personnel.

## Additional Information

For additional information relating to any aspect of this product specification data, including product performance, quality, testing, specification, range, availability etc. please contact your nearest Minova office, or email: [technicalsupport@minovaint.com](mailto:technicalsupport@minovaint.com)

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