



TL40—Thin Sprayed Liner

2-Pac spray applied polymer modified membrane for surface sealing and weathering protection of rock and coal strata.

Description

TL40 is a proprietary inorganic/organic hybrid coating especially designed for spray application onto coal, rock (or man made) surfaces for protection against weathering.

The 2 component system gives high flexibility /elasticity and tensile strength with superior adhesive qualities.

TL40 can also be used as a base/primer for future works, e.g. Shotcrete or gunite or built up to form full depth coating with multiple layer applications in as little as one hour.

Features

- Rapid setting
- High early strength development
- Excellent bond to concrete
- Easily spray applied
- Can be pumped long distances
- Non Toxic
- Low VOC
- Non Hazardous transport requirement.

Typical Uses

- Stabilisation of rock and coal strata
- Flexible surface support
- Temporary or preliminary slope protection
- Vent stopping
- Corrosion protection for standing steel support
- Surface support before shotcrete application
- To reduce rock weathering
- Minimise hard rock bursting
- Pillar/Rib Support
- Abutment for low pressure injection
- Ventilation shaft lining/improvements

Technical Data

Typical Application	2 – 12mm
Maximum Thickness	40mm
Density	2200kg/m ²
Application Temperature	0 - 45°C
Bond Strength(7 Days)	
Concrete	> 1.7Mpa
Coal	Substrate failure
Compressive Strength	>50MPa
Tensile Strength (7 Days)	> 3.5MPa
Flexural Strength (7 Days)	> 7.0MPa
Elongation at break (7d)	> 60%
Flammability	Self
extinguishing	

- Rehabilitation of collapsed areas
- Alternative to mesh support

Application Procedure

TL40 is designed for wet spray application. This helps reduce dust and improves the properties of the dried film. Rotor stator or peristaltic pumps are the preferred option for more consistent application.

Preparation

TL40 requires minimal to no preparation to achieve an adequate bond. All loose material should be removed to obtain high bond strengths and ensure longevity. Surfaces can be moist or dry prior to application.

Mixing

TL40 is mixed at a ratio of 20kg powder to 4L of liquid. It comes pre-packaged to avoid confusion. It should be mixed until homogeneous and not less than 3 minutes.

Pot Life

TL40 has a pot life of approximately 1 hour at 23°C. It will cure rapidly once applied.

Spray Technique

TL40 should be sprayed by experienced applicators in accordance with normal practices. For more information contact Cemspec Pty Ltd

Consumption

Is substrate dependent but generally about 2.2kg/mm/m² is a good guide

Curing

requires no curing

Cleanup

Cleanup with water while still uncured.

Storage

Keep dry and store in unopened original packaging.

Safety

The product has no toxic components or additives. The use of gloves, dust masks and eye protection is highly recommended. See SDS for further information

