

CONCRETE LINING PRODUCTS



SUPERSEAL

Superseal has been developed by Concrete Lining Products. Superseal constitutes a plasticiser free aqueous copolymer emulsion based on acrylic acid esters, with wetting agents added to a cementitious binder. Superseal is applied under high pressure enabling it to penetrate any fractures in the rock creating a key sealing, blocking support system with a high adhesion strength which consolidates the rock on either side of the fracture. The rest of the sprayed rock is sealed and protected from further deterioration due to oxidation.

Superseal is packed in both 12.5 kg or 25 kg bags depending in the mine's preference. A 25 kg bag can cover an area of 3 m² at 3 to 5mm depending on the rock factor. CLP can apply the product or assist the mine in training their personnel in effective application of the product.

Mixing requires the addition of 4.00 litres of binder per 21 kg Cementitious mix.

A suitable pump / spray apparatus can be used for a compacted rapid coverage. Application by trowel ensures a smooth finish. Do not apply in running water conditions or when temperature is below 5°C.

APPLICATION INSTRUCTIONS AND PREPARATION

Due to unique formulation, minimal preparation of substrate is required.

CLEANING

Equipment must be cleaned with water immediately after use. Cured material can be removed only by mechanical means.

STORAGE / SHELF LIFE

Superseal has a shelf life of 3 months when stored in cool, dry conditions. To prevent disintegration of packaging, store away from direct sunlight.

PRECAUTIONS - HEALTH AND SAFETY

Superseal is non-toxic but is mildly alkaline. Goggles, gloves and dust masks should be worn during application. Splashes on skin should be rinsed with clean water. In case of splashes in the eyes, rinse with water and seek medical advice immediately.

TECHNICAL SUPPORT

Specialized technical support provided by CLP and backed by on-site assistance. Laboratory research done by Wits University (Mining Division)

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QUALITIES:

- Non Toxic
- Bio-degradable
- Easy application
- Will bond to dusty, wet and fatty surfaces

TECHNICAL DATA

- White liquid binder
- Solid content: 46 % per volume
- Boiling point: 100°C
- PH 8.5 ± 0.5
- Non flammable
- Non toxic
- Non corrosive
- Cementitious
- Silica sand and fillers

ADVANTAGES

- Ease of operation
- Pot life of up to 20 minutes
- Superior bond strength
- Will bond to any rock type including coal
- Cost effective
- Completely environmentally friendly
- Non-toxic
- Long shelf life

PROPERTIES:

Setting time: 1-2 hours

Test	28 Day
Material shear strength (MPa) Flexural	10.40
Shear bond strength (MPa) Pull Off	6.54
Tensile strength (MPa)	9.75

Pack Size (kg)	Mix Binder	Yield (litres)
25	Included	± 15



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