

Structural Support Liner (Temporary)

DESCRIPTION

TamCrete SSL is suitable for initial ground support for temporary applications only and should be subsequently supported with traditional ground support technologies SCL for permanent applications.

TamCrete SSL is based on Acrylic resin and graded fillers and is not cement based or Polyurea based.

TamCrete SSL is versatile because it works often when no other means of support is available. This is mainly because it can be applied rapidly and safely, reinforcing the rock mass in the early stages using small compact spraying equipment.

TamCrete SSL's structural support mechanism is considered to be particularly relevant in high stress situations in which some loosening will have taken place and in which on-going stress-induced fracturing does occur. TamCrete SSL penetrates into the rock mass along open fractures and joints and acts as a hard, rough gouge, filling and increasing the cohesion across the fractures. This strengthens the rock mass and limits the ability of the rock fabric to move. (Key block-interlocking). Due to the good adhesion capability of TamCrete SSL it is an excellent temporary support mechanism. The coverage with TamCrete SSL stops weathering and deterioration of fractures and preserves the excavation.

Due to the reduced amount of material that is applied savings are realised with operational effectiveness on logistics, application, etc.

TamCrete SSL is applied using highly mobile and light equipment without sacrificing spray production. TamCrete SSL can easily be applied in confined spaces and difficult access areas.

TamCrete SSL is highly adaptable and can be sprayed on humid and wet areas (not onto pressurised running water). Owing to TamCrete SSL's fast strength gain ground support may be carried out right up to the working face.

KEY BENEFITS

- › Cost effective
- › Non-toxic and environmentally friendly
- › Fast setting times and high early strength
- › Final compressive strength development after 7 days
- › Very low dust production during application ensures safer working environment
- › "Zero waste" (No rebound)

TYPICAL APPLICATIONS

- › Air-slacking and rock weathering reduction
- › Vent stopping
- › Temporary rock support in tunnels and mines
- › Suitable for lateral work and in shafts
- › Fly rock stabilisation

TECHNICAL DATA

TamCrete SSL	
Parameters	Final strength
Tensile Strength (ASTM D638-Type 1)	1h - 1.0 MPa 7d - 2.2 MPa
Shear Bond	4h - 3.3 MPa 28d > 4.0 MPa
Flexural Strength (BS EN 196-1)	1d > 6.0 MPa 7d > 6.4 MPa Final > 12 MPa (cut off from slab)
Compressive Strength (BS EN 196-1)	4h > 10 MPa 1d > 22 MPa Final > 50 MPa (cut off from slab)
Gel Time	4 sec - 4 min
Final Strength Days	Max. 7 days

All technical data stated herein is based on tests carried out under laboratory conditions. Strength test results heavily depend on how the samples are prepared.

APPLICATION GUIDELINES

Please contact your local Normet representative for detailed information on the application. A method statement is available on request.

Known Limitations and Precautions

- › For design calculations the TamCrete SSL should not be taken into account for final loadings
- › Does not adhere to coal surfaces
- › Pressurised and running water has to be managed prior to application
- › Application of traditional ground support SCL may require further treatment of the surface with bonding agent such as TamCrete Bond & Seal

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product. Please note regional climatic conditions may cause a variation in the performance of the product. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous data. Please check with your local Normet office to confirm that this is current issue.

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PACKAGING

15.5 kg bag SSL Filler and 4.75 kg can of SSL resin. When mixed lead to 2.5 m² at 5 mm thickness. Liquid SSL accelerator is packed in plastic drums.

STORAGE

TamCrete SSL should be stored at room temperature (min 5°C and max 35°C), kept out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

HEALTH & SAFETY

TamCrete SSL should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety data sheet is available upon request from your local Normet representative.