

SUNGEOGROUT

Solvent free, Inorganic, Hydrophilic, Non-hazardous, Low Viscosity Chemical Grout for Stabilization and Consolidation of Sandy/Silty Soil

DESCRIPTION

SUNGEOGROUT is two component colloidal silica based chemical grout used for soil stabilization and consolidation and other geotechnical applications like rock injections etc.

Chemical grouting with SUNGEOGROUT can also be implemented around existing foundations to stabilize surrounding soil and minimize any future settlements. In addition to stabilizing the sub-grade beneath the foundations, the grouting procedure will also provide a grout curtain around the existing foundations to minimize ingress of water beneath the foundations.

SUNGEOGROUT is used together with an accelerator to control the gel time of the grout.

APPLICATIONS

- Soil stabilization – pre-injection and post-injection.
- Water ingress reduction during excavation.
- Dust Control.
- Slope Stabilization.
- Ground Improvement.

ADVANTAGES

- Used in conjunction with an accelerator which gives controlled setting times.
- Solvent free.
- Hydrophilic so effective on wet substrates.
- Low viscosity enables fast and effective penetration.
- Reliable, proven performance.
- Safety and ease of use. Simple pumps and grouting equipment can be used.
- Environmental acceptability.
- Adaptability over a wide range of applications.

TYPICAL PROPERTIES

Grout

Appearance	Whitish Clear Liquid
Specific gravity	1.2 ± 0.1
pH	11.3 ± 0.1
Viscosity in B4 Ford cup at 28°C	12-15 sec

Accelerator

Appearance	Clear Liquid
Specific gravity	1.07 ± 0.01
pH	7.0 ± 0.1
Viscosity in B4 Ford cup at 28°C	10-12 sec

SungeogROUT Mix

Appearance	Whitish Clear Liquid
Specific gravity	1.2 ± 0.1
Viscosity in B4 Ford cup at 28°C	12-15 sec
Shelf life	18 months in sealed container stored in the shade at 5 – 40°C
Packing	Part A - Grout Part B – Accelerator 5, 20, 200 Kg HDPE containers

APPLICATION METHOD

- Mix Part A and Part B in the specified ratio in consultation with SUNANDA's Concrete Materials Consultancy Division.
- Grout must be continuously stirred during addition of the accelerator and fully mixed prior to grouting into the soil. Simple pumping equipment like a one component pumps, such as a cement grout injection pump may be used to grout SUNGEOGROUT. All equipment may be cleaned with fresh water.

- The gel time may be customized based on amount of accelerator added. Typical gel times achievable vary from 10 minutes to several hours. Site tests are recommended in consultation with SUNANDA's Concrete Materials Consultancy Division.

HEALTH & SAFETY

- SUNGEOGROUT is non-toxic, non-hazardous. Usual precautions like wearing gloves and goggles when handling should be followed. Accidental splashes on skin and in eyes should be washed off with plenty of plain water. If necessary seek medical advice.

FIRST AID MEASURES

- Skin contact: Immediately wash thoroughly with soap and water.
- Inhalation: Remove to open air. Seek medical attention.
- Contact with eyes: Immediately wash under running water with eyelids open for at least 15 minutes. Seek medical attention.
- Ingestion: Rinse mouth thoroughly and drink plenty of water. Seek medical attention.

ACCIDENTAL RELEASE MEASURES

- Environment Care: Clean small spillages immediately with water. Contain large spillages with suitable absorbent materials.
- Dispose the waste water/absorbent material in accordance with local regulations.

QUALITY ASSURANCE

All products are manufactured under a Quality Management System for Design, Manufacturing and Selling of Construction Chemicals as per the standards of ISO 9001: 2008.

SUNANDA

DISCLAIMER

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