

CELBEX 653

Thixotropic Cement Grout Modifier



Geotechnical contractors require specialty additives when working in water bearing soils. Professionals rely on Multiurethanes' products, such as CELBEX 653, to provide stable working conditions and to reduce costs.

Where to Use

Application – CELBEX 653 is suited for cement grouting of tunnels, dams, deep excavations, rock fissures, granular fills, and wherever “stop and stay” grouting is required. CELBEX 653 is compatible with various cements, cement-bentonite mixtures and other performance enhancing additives.

Substrate – rock, concrete, soil

How to Use

Preparation – Drill conventional holes for grouting purposes. Mix cement grout, usually with low water: cement ratio of 0.75 or less. Begin injecting cement grout, slowly adding CELBEX 653 after grouting is underway. Thickening is almost instantaneous.

Application – Typical dosage of CELBEX 653 is 25 – 250 grams per 40 kilogram bag of Portland cement. Slowly add a small dose of CELBEX 653 gradually into the grout agitator tank while pumping the grout. Do not add CELBEX 653 into colloidal or paddle mix tanks. Use the entire grout batch containing CELBEX 653 before adding fresh grout and additional CELBEX 653 into the grout agitator tank. Slowly increase dosage according to site conditions.

Clean Up - Flush mixer, pump, hoses, and grouting accessories with clean water.

Technical Data

Component -	CELBEX 653
Mixing Ratio -	25 – 250 g / 40 kg of cement
Colour -	White
Physical State -	Powder
Shelf Life -	12 mos.
Packaging -	18 kg pails

Description

CELBEX 653 is a thixotropic modifier that creates low-mobility cement grout and is used when grouting in unstable soils, water-filled voids, and whenever flowing water conditions are present.

The rapid thixotropic gelation minimizes washout and allows cement grout to remain in place and resist dilution.

Advantages

- Overcomes site conditions prone to washout
- Reduces washout, saves cement
- Enables the use of cement grouts in moving water conditions
- Non-toxic blend of water-soluble polymers

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Limitations

- Reduction in compressive strength, compared to ordinary cement grouts
- Final set time is increased

Caution

Keep container closed between batches to avoid moisture contamination. Prevent contact with eyes, skin and clothing. Avoid breathing dusts. Do not ingest. Wear appropriate PPE including impermeable gloves and safety glasses.

First Aid

For eye contact: flush with water; if irritation occurs: seek medical attention. For skin contact: wash with soap and water; if irritation occurs: seek medical attention. For inhalation: move to fresh air; if difficult breathing occurs: seek medical attention. For ingestion: seek medical attention; drink water; do not induce vomiting. Refer to MSDS for more information.

Related Products

Accelerator for Cement Grout, Bentonite

Related Literature

Cement Grouting Products and Services, MSDS

Company Overview

Multiurethanes offers technical grouting services for water cut-off, soil stabilization and void filling applications for the same industries that you service; drilling, mining, deep excavations, heavy civil, tunneling and utilities.

Our services include: engineering, technical support, materials, and equipment.

Technical Service

For additional information, please contact us: 1-800-663-6633 / info@multiurethanes.com



Excavation contractors rely on Multiurethanes' products, such as CELBEX 653, to stabilize weak ground conditions.