

A HYDROPHILIC INJECTION GROUT FOR SOIL & ROCK CONSOLIDATION

DESCRIPTION

A one component low viscosity hydrophilic injection grout used for the consolidation of loose sandy soils, sealing of fractures and cracks in hard rock, containment curtain grouting and pre-injection grouting in tunnels.

USES & ADVANTAGES

Use in the consolidation of soils and rock. **Contite Soil Stab** has the following advantages:-

- Adjustable gel time.
- Non flammable.
- Environmentally friendly.
- Low viscosity.
- Can be injected into very small cracks & fractures.
- Easily applied through simple mixing & pumping equipment.

PROPERTIES

	For Part A	For Part B
Appearance:	Slightly Turbid liquid	Clear liquid
Viscosity:	Approx. 10 mPa.s	Approx. 1 mPa.s.
SG:	1.2-1.3	1.05-1.10
pH Value:	10.5-11.5	1-2

Mixed Material (20% part B)

Appearance:	Clear liquid
Viscosity:	Approx. 5 mPa.s.
Density:	1.1-1.2
pH Value:	4.5-5.5

Cured Material (20% mixture with sand)

Compressive Strength: 1.5-2 N/mm²

Note : Properties may vary when the product is modified to specific site conditions.

APPLICATION

Contite Soil Stab is used for the consolidation of loose sandy soils and for sealing narrow fractures in hard rock.

Soil characteristics should be investigated prior to commencing injection.

Soil injection should be carried out at the lowest possible pressure this is determined by load pressure on the soil, permeability, resin characteristics and injection speed.

Trial injection should be carried out to determine flow rate and the spacing of injection points.

Before injection and installation of injection tubes check for the presence of utilities and ground water, investigate soil & geological composition of the site & test permeability of the soil for water and grout.

Grout Preparation

Mix Part A & B for 2-3 minutes by adding material Part A into Part B mix until a uniform homogeneous mixture is obtained. It is recommended to add Part A material into Part B in order to achieve homogeneous mixture.

Ensure Part B is fully premixed into Part A before grout injection.

Part B by Volume % with Part A	Gel Time (at 25°C)
15%	Approx. 60 minutes
20%	Approx. 30 minutes
25%	Approx. 15 minutes
30%	Approx. 10 minutes

INSTALLATION

Increase in temperature of 10°C will approximately half reaction times.

The mixed grout may be pumped with a simple one component pump, for example, use a cement injection piston pump. A worm pump may be used if pumping into permeable soils where a slow movement is required.

In hard rock situations packers are to be inserted into the rock. Into sandy soils a strainer pipe can be used.

CONSUMPTION

Will depend on the size and dimensions of cracks & voids to be filled.

CLEANING OF EQUIPMENT

All equipment can be cleaned with fresh water.

PACKAGING

Contite Soil Stab

Part A : Available in 20 kg and 200 kg drum.

Part B : Available in 20 kg and 200 kg drum.

Other packing units are available on request.

Contite[®] Soil Stab



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STORAGE CONDITIONS & SHELF LIFE

Store in the shade in dry conditions. Stored in well sealed drum, in a dry area, at temperatures of 5°C-35°C, the shelf life is approximately 12 months in unopened drums.

HEALTH & SAFETY

Part A is alkali and Part B is acidic. Always wear protective clothing, gloves and safety goggles.

If in Eyes : Immediately flush eyes and skin with plenty of water for at least 15 minutes, holding lids a part to ensure flushing of the entire surface. Do not rub eyes. Get medical advice immediately.

Skin : Immediately flush skin with soap and water for at least 15 minutes. Also call a physician.

If swallowed/Ingestion : Do not induce vomiting. If a person is conscious and alert give 2-4 cupfuls of milk or water. Consult a physician immediately. Never give anything by mouth to an unconscious person.

Inhalation : Get medical aid immediately. Remove patient from exposure to fresh air immediately.

TECHNICAL SERVICE

The Cormix International Limited Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2008 verified by TUV Nord.

CONTACT DETAILS

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