Assess Build Chem Pvt. Ltd.
A World of Concrete Solutions

SS - GroutEx NS

High Performance, Waterproof, Non-Shrink, and Plasticizing Expansive Grouting Additive for use in Concretes and Mortars

General

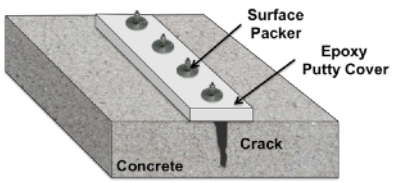
SS - GroutEx NS is a single component mineral powder, which when added to mortar or concrete, activates and provides a gaseous expansive agent that functions to counteract shrinkage in concrete or mortars. It is composed of a mineral binder, well-graded fillers and a combination of active chemicals and additives. Due to its formulation, the active substances in **SS - GroutEx NS** disperses rapidly into the mix and forms waterproof compounds and expansive gases that seal and block capillaries and cracks. Thus the material increases water ingress resistance and load carrying capacity of the entire mortar / plaster / concrete mass when injected into concrete.

SS - GroutEx NS is a multifunctional additive that improves flow, strength, flexural properties, non-shrink properties and crack resistance of grouting mortars. **SS - GroutEx NS** provides benefits to the user by making the cement grout stable, easy to inject, providing rapid return to service. The additive is non-corrosive, is suitable for both compressive & flexural loads. Proper Injection ensures seamless load transmission to foundation the crack or void and ensures a precise, watertight, load bearing connection that most importantly does not shrink or crack.

The injection grout is imparted low viscosity, easy flowability, excellent substrate wetting and adequate expansion to ensure homogenous filling of the cavity the grout is injected into. It can also be used with mortars and concretes to counter shrinkage.

Product Features

- Easy to mix and Disperse
- Powder form, easy to handle
- Renders cement grouts highly flowable and waterproof
- Improves workability, adhesion as well as stability of the cement suspension
- Does not affect setting time, it enhances compressive strength, watertightness & load carrying capacity Chloride Free, No corrosion Promoting Action
- Economical Dosage



Injection Methodology: Cementitious Grout

Areas of Application

- Cracks and voids in concrete, soil or masonry
- Grouting ducts in prestressed concrete elements
- For producing cementitious foundation grouts
- Load bearing injection across cracks and voids in repair strategies
- Slightly damp areas / as waterproofing injections
- Injection across cold joints and interfaces between horizontal and vertical interfaces in waterproofing
- Suitable for Building Structures, Infrastructure, Water Retaining Structures or Industrial Structures

Areas of Application

Specification Keywords	Mineral Additive, non-shrink, expansive, plasticising, grouting additive, waterproof, strength enhancing, mortars, concretes, grouts, injection suspensions
Delivered As	Light Grey Powder
Storage Instructions	Store in a cool, dry area away from sunlight in original packaging
Shelf Life	12 months
Post Use	Empty packaging completely. Dispose as per local regulations. Refer MSDS for suggestions.
Packing Size	30 kg

Assess Build Chem Private Limited

302 – 304, A Wing, Vardhaman Chambers, Sector 17, Vashi, Navi Mumbai 400703, India
Phone: +91-22-41272323 Email: info@ssbuildchem.com Website: www.ssbuildchem.com

SS - GroutEx NS

Hazards and Safety

Technical Data

Specific Gravity	1.5 +/- 0.05
Dosage	1.0% by weight of binder, at least 3 kg / m^3 of mix
Mixing Time	At least 3 minutes
Post Application	Curing is mandatory

Instructions for Use

Add **SS - GroutEx NS** to the cement grout during mixing, most preferably along with the additional water. It is not recommended to add **SS - GroutEx NS** to the dry sand/cement, as it reduces efficiency of the admixture. The mixing time after addition of the admixture should be long enough to allow the admixture to function completely.

The concrete / mortar to be produced can be mixed in a standard drum mixer or a modern batching plant / pan mixer setup. Pure cement suspensions are best mixed in a colloidal mixer or high speed mixer. The expanding and swelling effect starts slowly but immediately after mixing the grout.

Inject the grout using standard cement grouting pumps / membrane pumps. The use of gravity / pressure injection method depends on the crack width, crack depth, porosity and saturation of the substrate. Ensure the injection is continued till rejection. Grout the point within 30 minutes of mixing. Refer to the schematic on page 1. Cut and seal the packer post grouting.

In-case the admixture needs to be dosed on-site into mixers, please follow corresponding engineering and safety rules. Post addition, mix at full speed for atleast 3-5 minutes, to allow the admixture to disperse homogeneously. As with all chemical products, take care during use and storage to avoid contact with eyes, mouth, skin or food. In case of contact, rinse eyes and skin immediately with plenty of water. If ingested, seek immediate medical attention.

Keep away from children and animals. Reseal containers after use. Do not reuse containers for storing water or other consumable foods. Use Complete Packs. The additive is compatible with other plasticiser and retarder admixtures from the Assess Build Chem Product Range.

Safety and Precautions

To determine individual technical suitability, test the admixture under application conditions. Please allow us to assist you for your concrete technology testing/needs. Follow relevant standards for production, placing and curing of the concrete / mortar / plaster. As with any concrete / mortar, efficient curing is essential to develop final properties mechanical and durability properties. Air entrainment reduces the strength of the mortar and should be considered as part of the mix design process

Depending upon the plaster mix severe over dosage of the admixture may result in apparent incompatibility such as bleeding/ segregation, quick loss of slump, excessive air entrainment, extended initial and final setting times etc. Slight overdosing would not severely affect the ultimate strength of plaster provided the concrete is properly mixed, handled and applied and cured.