

CCI NEOGROUT NSA

Polymer-modified Non-shrink Additive for Injection Cement Grouting

Description

CCI NeogROUT NSA is a specially formulated non-shrink grouting aid. It is a free-flowing powder for addition to neat cement mixes. It plasticizes the mix, allowing for substantial reduction in water without affecting the fluidity, thus improving the strength and impermeability of the grout. During the setting period of the grout, it produces controlled expansion to compensate the normal drying shrinkage of cement. This ensures complete filling of voids and prevents formation of porous sections. It also imparts surface active properties and controlled volume increase during reaction; thus, even the smallest cracks and pores can be impregnated.

Domains of Application

CCI NeogROUT NSA is used as an admixture for injection grouting to effectively waterproof and stop leaks in underground structures, basements, tunnels, lift wells, retaining walls, dams, water reservoirs, pressure ducts and other water retaining structures. It is also recommended for grouting pre-stressed members machine bases, column bases (steel and precast concrete) anchor bolts etc., and wherever a non-settling, non-bleeding, expanding grout is required. **CCI NeogROUT NSA** can also be used as an additive to produce flowable expansion (non-shrink) concrete (with smaller sized graded aggregates are preferable) / mortar.

Advantages

- ✓ Drastically improves the fluidity and flowability of the mix.
- ✓ Ensures high early strength and rapid gain of later strength.
- ✓ Increased flexural and tensile strength.
- ✓ Provides additional resistance to dynamic and repetitive loading.
- ✓ Compensates cement shrinkage by controlled expansion.
- ✓ Withstands thermal movements to provide improved dimensional stability.

Indicative Characteristics

Form	Powder
Colour	Ash Yellow
Free linear Expansion, ASTM C 827	2% to 4%

Compatibility	Can be used with all types of Ordinary Portland and blended cements, including sulphate resistant cement.
Consistency	CCI NeogROUT NSA is formulated from carefully selected raw material and it is manufactured under control conditions to give a consistent product.
Handling	CCI NeogROUT NSA is formulated from Chemicals which present no fire or health hazards.

Method of Application

Mixing

Use mechanical mortar mixers, preferably of the slow speed (250 rpm to 350 rpm) paddle mixer. Hand mixing rarely achieves the desired result. Allow approximately 5 minutes for mixing. Thorough mixing is essential for achieving maximum results. Add cement and **CCI NeogROUT NSA** slowly into recommended amount of clean water in a mixer.

CCI NeogROUT NSA is admixed with neat cement mixes to a suitable consistency and injected under pressure, preferably by a positive displacement pump through nozzles. The surface of the concrete/rock should be properly sealed/patched to prevent the grout from coming out. To get better result **CCI NeogROUT NSA** should be mixed uniformly with dry cement for concrete and mortar.

Dosage

225 g pouch per 50 kg of cement. However, the optimum dosage depends on the nature of the work and is best determined by site trials. For grout, mortar or concrete mixes with an aggregate/cement ratio more than 1, use 4 units × 225 g of **CCI NeogROUT NSA** per 100 kg of cement.

Packaging

225 g pouch.

Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C.

Safety

- ✓ Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- ✓ In case eyes or mouth are affected, wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

Registered Office	Regional Office	Chennai Plant	Mumbai Plant
Office No. 210 Shah Heritage Commercial CHS Plot No. 9, Sector 48, Seawood Navi Mumbai – 400 706 Maharashtra, India Mobile: +91 93247 27785 E-mail: kashinath.bera@ccichemicals.in	'LAKSHMAN MANERE' Old No. 17/2, New No. 42/2, R Block 6 th Main Road, Anna Nagar West Chennai – 600 040 Tamilnadu, India Mobile: +91 98400 73183 E-mail: durai.murugan@ccichemicals.in	No. 1, Perumal Koil Street Azhinvakkam Sriperumpudhur Thiruvallur – 602 105 Tamilnadu, India	Plot No. A-51 Taloja Industrial Area MIDC, Taloja Navi Mumbai – 410 208 Maharashtra, India