

Conmex NS-10

Plasticized expanding/non-shrink grout additive

Description

Conmex NS-10 is a powdered admixture formulated to produce a more uniform and workable non-shrink grout with less water. As a non-shrink additive, this will allow slow, controlled, in-place expansion of the grout mix prior to hardening. As a grout fluidifier, it will greatly enhance flowability, allowing ease of placement with extended handling and set times. It also significantly reduces water requirements by 10 to 15%.

Conmex NS-10 is a suitable pre-stressing grout admixture when complying with BS8110 Part 1, 1985, Section 8.9.4.6.

- Increased compressive, shear, and bond strengths
- Increased water retention
- Reduced cracks and cold joints
- Improved grout flowability & extended set times

Fields of application

Conmex NS-10 is an admixture for cementitious grouts where a reduced water/cement ratio and positive expansion is required. Applications include bed grouting, duct grouting, non-shrink infilling and jointing.

Technical data

| | |
|----------------------------|-----------------------|
| Form: | Grey-White powder |
| Chloride Content: | Nil |
| Expansion: (ASTM C-827) | Up to 3% |
| Time for Expansion: | 20 minutes to 2 hours |

Directions to use

Mixing

Conmex NS-10 should be added to the grout mix at the job site, rather than the plant, to ensure no reduction in expansive action and to provide maximum flowability

For best results a mechanical power mixer must be used. Large quantities will require a high volume drum mixer. The selected water content (W/C) ratio 0.45 for best results should be added to the mixer. This can be varied depending on the site conditions and requirements.

Mix thoroughly for at least 5 minutes after adding water. Improper mixing can result in poor performance.

Typical Mixes

| | | |
|--------------------------|-------------|--------------|
| OPC | 50kg | 50kg |
| Concreting Sand | - | 50kg |
| Water | 20 -22 ltrs | 22 – 24 ltrs |
| Conmex NS-10 | 240g | 240g |
| Approximate Yield | 36ltrs | 57ltrs |

Note: For grout, mortar or concrete mixes with an aggregate/cement ratio more than 1, use **Conmex NS-10**, 0.6% - 1.5% by weight of cement.

Application

It shall be ensured that areas to be grouted are clean, sound and pre wetted. Usual placing or pumping procedure shall be adopted ensuring a continuous operation and shall be placed within



20 minutes of mixing to gain the full benefits of expansion process.

Conmex NS-10 is admixed with neat cement of suitable consistency and injected under pressure preferably by a positive displacement through nozzles.

Curing:

On the completion of the grouting operation an exposed areas which are not to be grouted shall be cured

Cleaning

Prior to drying, equipment may be easily cleaned with soap and water. Once dried, use mineral spirits or other suitable petroleum solvent solvents.

Packaging

Conmex NS-10 is available in 240g and 20kg HDPE bags.

Shelf life

12 months from production date if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Health & safety

Avoid direct contact with this product. Use of safety glasses, rubber gloves, and protective clothing is recommended. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children.

Refer to Safety Data Sheet for complete health and safety information.

Notes

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