



Technical Data Sheet

ADMIX 420E

Non shrink powder super plasticizing grout additive

Description

Admix 420E is a pre-packed powder consisting of selected admixtures and expansive material.

Admix 420E reduces the water demand, producing high strength with low permeability and excellent bond to steel.

Applications

- Post tensioned cables.
- Pre-stressed structural elements.
- Duct grouting.

Advantages

- Produce a non-shrink grout which is compensated for shrinkage and settlement in the plastic stage.
- Produce an extremely low permeability grout at low water to cement ratio.
- Improves fluidity at lower water cement ratio
- High bond to steel.
- High initial and ultimate strength.
- Chloride free.
- Compatible with all types of Cement

Technical properties

Color:	Brownish powder
Expansion Characteristics: to ASTM C827-87	Up to 4%
Fresh Wet Density:	Approx. 2000kg/ m ³

Method of use

Proposed mix

Admix 420E	OPC	Sand	Water	yield
0.5 kg	50kg	50kg	15±2	55 ltr

Mixing

- To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.
- High shear vane mixer is required when mixing large quantities.
- The required water content should accurately measured and added into the mixer.
- Slowly add the cement and **Admix 420E**.
- Mix for 5 minutes or until smooth even consistency is achieved.

Application

Placing and Finishing

- Enough materials should available to achieve continuous fill and to complete the work.
- Pouring of the mixed grout should be started from one side only to avoid air entrapment.
- Areas to be grouted should be clean, sound and must be pre-wetted with clean water.
- The mixed grout should be placed within 30 minutes of mixing to gain the full benefit of the expansion process.
- Care should be taken to keep the unrestrained surface areas of the grout to a minimum.

Curing

Only exposed areas should be properly cured with water or with Ecocure AC.

Storage

Admix 420E has a shelf life of 12 months if stored at temperatures between 5°C and 35°C in original unopened bags.

Cleaning

All tools should be cleaned immediately after application using fresh water. Hardened materials should be cleaned mechanically.

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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Dosage

Dosage between 1 – 3% by weight of cementitious material.

Trials required to confirm the proper dosage.

Packaging

Admix 420E is available in 20kg bags.

Cautions

Health and safety

Admix 420E is of low hazard and may cause irritation to skin or eyes.

In case of accidental contact with skin or eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

Fire

Admix 420E is non-flammable.



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