



E 10

Expanding and Plasticising powder grouting admixture

DESCRIPTION

E 10 is a specially formulated powder for use as an admixture to prepare cementitious grout and slurry. It plasticises the mix at reduced water cement ratio, making placement or injection of the grout convenient on site. It produces controlled expansion to compensate to the plastic shrinkage and settlement.

USES

- Repairing honeycombs by pressure grouting
- Duct grouting & bed grouting
- Filling gaps between precast elements
- Non-shrink cavity filling
- Filling up the plumbing & electric chases

FEATURES

- Reduced water cement ratio: ensures low permeability and improved strength of the grout
- Provides high fluidity: ease of work at site
- Expansive additive: compensate to the plastic shrinkage
- Chloride free: non corrosive

PHYSICAL PROPERTIES

E 10	@ 27 ± 1°C
Appearance	Brown powder
Chloride ion content IS 6925 - 1973	< 0.02%
Volume Expansion ASTM C 827	Unrestrained expansion of average 4%
Time of Flow ASTM C 939	Approx. 12 seconds
Time for expansion	15 minutes - 2 hours @ 20°C
Compatibility	Compatible with all types of Portland cement. Not compatible with High Alumina Cement.

PACK SIZE

250 g

DOSAGE

OPC	Concreting sand	Water	E 10	Approx. yield
50kg		20 – 22 litres	250 g	36 litres
50kg	50kg	22 – 24 litres	250 g	57 litres

APPLICATION INSTRUCTIONS

Surface Preparation

All areas to be treated must be dry, clean, and free from oil, grease, wax, polish, laitance, dust and other barrier materials. Pre-wet the surface with clean water for minimum 12 hours before starting the grouting process.

Mixing

Add 80% of the pre-measured mixing water in a clean container and then slowly add Portland cement. Mix thoroughly for 2 minutes using a mechanical mixing paddle to ensure proper dispersion of cement. Add the measured E 10 (and sand if to be used) in the mixing container and continue mixing for another 2 minutes. Then add the remaining 20% water and mix until smooth even consistency of the grout is obtained.

Place the grout within 15 -20 minutes of mixing to gain the full benefits of expansion process.

Note: It is recommended to keep the water temperature below 25°C for long working time of the grout

Placing of grout

Ensure that sufficient grout mix is prepared and ready before beginning the work. Adopt usual placing or pumping procedures ensuring a continuous operation to prevent air pockets.

CURING

On completion of the grouting operation, exposed areas should be thoroughly cured either with wet hessian or with C 20 curing compound.

STORAGE AND SHELF LIFE

E 10 has a shelf life of 12 months if kept in a dry store between 5°C and 30°C in the original unopened package. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

Keep out of reach of children; wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

For more details please refer the relevant Material Safety Data Sheet

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this

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information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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