



EUCO EXPAN

SHRINKAGE COMPENSATING ADMIXTURE

EUCLID CHEMICAL

SPECIALTY PRODUCTS

DESCRIPTION

EUCO EXPAN is a powdered admixture used for the compensation and total overall reduction of net shrinkage for Portland cement mortar. It is non-toxic, non-flammable and does not contain chlorides or other ingredients of a corrosive nature. **EUCO EXPAN** causes the cement mortar or grout mixture, to expand before setting.

PRIMARY APPLICATIONS

EUCO EXPAN is a patented special product for the grouting of loose soil formation, prestressing cables, micro-piling and cavities in rocks. The usage of **EUCO EXPAN** in grouting and mortar mixture has the following effects:

- Prolonged workability
- Protective action against corrosion
- Good strength properties
- Durable and dense

FEATURES/BENEFITS

- Causes cement mixtures to expand before setting
- Prevents premature setting
- Reduces water content
- Reduces the separation of bleeding water from mixture
- No chlorides
- Non-toxic and non- flammable

TECHNICAL INFORMATION

Colour:	Beige powder
Specific Gravity:	3.13 - 3.16
pH:	12.5 - 13.0
Mix Design:	Cement: 50kg W/C ratio: 0.45 EUCO EXPAN dosage: 1% by weight of cement

Typical Results:

Flow Test JA Cone (3 minutes after mixing):	3.2 seconds
Wet Density (kg/m ³):	1.850
Air Content (%):	6.0
Expansion (%) @ 24 hours:	0.35
Compressive Strength (N/mm ²) @ 28 days:	45.0

PACKAGING

EUCO EXPAN packed in 20kg bag.

SHELF LIFE

The shelf life is 12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry condition at temperature between +5°C and +30°C. Protect from direct sunlight.

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DIRECTIONS FOR USE

Recommended Dosage: 0.5 - 1% by weight of cement (0.225 – 1.0 kg per 50kg cement)

Mixing: The sequence of mixing for grouting should be: **Sand – Cement – EUCO EXPAN – Water**
sequence for cement paste should be: **Water – Cement – EUCO EXPAN**

Application: Apply the grouting materials within 15 minutes of mixing to gain the full benefit of the expansion process. Ensure a continuous flow when pumping the grouting materials.

Note: Not recommended to add sand for pre-stressed concrete work.

CLEAN UP

Clean all tools and application equipment with water immediately after use. Hardened and cured material can only be removed mechanically.

PRECAUTIONS / LIMITATIONS

- **EUCO EXPAN** is for use by specialist workers in the field of pre-stressing and grouting techniques.
- For important work it is necessary to determine the most suitable procedure by means of preliminary site tests.
- Cement containing fly ash or other waste materials may show lower expansion.