



# Cebex<sup>®</sup> 705

## Air entraining admixture for mortar

### Uses

- In conjunction with Cebex retarding admixtures to produce a pre mixed retarded mortar with a suitable life of typically up to two working days.
- To improve the workability and trowelling properties of fresh sand:cement mortars and to increase the frost resistance of the hardened mortar.

### Advantages

- Produces a highly stable entrained air system
- Air entrainment increases the resistance of mortars and concrete to attack by frost and de-icing salts.
- Improves trowelling properties of mortars
- Air entrainment increases mortar yield
- Suitable for use in lime containing and lime free mixes
- Suitable for use in pigmented mortars.

### Standards compliance

Cebex 705 complies with BS 4887 Part 1 as an air entraining (plasticising) admixture for mortar.

### Description

Cebex 705 multifunctional air entraining admixture is chloride free and specifically designed for use with retarded mortar. It is supplied as a translucent red solution which instantly disperses in water.

Cebex 705 entrains a controlled quantity of small air bubbles which impart cohesion and workability to a mortar and improve its durability when set. These bubbles are particularly stable, improving mortar quality and assisting in keeping mix workability at satisfactory levels.

### Technical Support

Fosroc provides a technical advisory service to specifiers, end-users and contractors as well as on-site technical assistance in locations all over the country.

### Typical dosage

The optimum dosage of Cebex 705 to meet specific requirements must always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the mix.

Typical dosage levels for Cebex 705 to produce an air content of approximately 18% in a sand : cement mortar in the range of 0.10 to 0.50 litres/100kg of cement. When lime is used in the mortar mix the dosage range is likely to be increased, typically 0.30 to 1.00 litres /100 kg of cement. In mixes containing lime the admixture dosage should be based on the total of lime and cement in the mix.

### Use at other dosages

Dosages outside the typical range suggested on this data sheet may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact Fosroc for advice in these cases.

### Properties

**Appearance** : Translucent red liquid

**Specific gravity** : Typically 1.020 @25°C

**Chloride content** : Nil to BS 5075

### Instructions for use

#### Mix workability

The initial workability of a retarded mortar is an important factor in ensuring a consistent product with the desired workability retention characteristics. The initial workability should be within the range of 100 to 110% as measured using the BS4551 flow table.

#### Storage of mixed mortar

Once manufactured, the mixed mortar must be protected from moisture loss. It is recommended that mortar is in a non porous container with a close fitting lid. Should evaporation occur, the mortar may form a crust.

#### Compatibility

Cebex 705 is compatible with other Fosroc admixtures used in the same mortar mix. All admixtures should be added to the mortar separately and must not be mixed together prior to addition. The resultant properties of mix containing more than one admixture should be assessed by the trial mix procedure recommended on this datasheet.

Cebex 705 is suitable for use with all types of ordinary portland cement. Fosroc shall be contacted for use with specified cement and blends containing cement replacement materials.

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## Dispensing

The correct quantity of Cebex 705 should be measured by means of a recommended dispenser. The admixture should then be added with the mixing water to obtain the best results. Fosroc shall be consulted for advice regarding suitable equipment and its installation.

## Effects of overdosing

An overdose of double the intended amount of Cebex 705 will result in a significant increase in the level of air entrainment obtained. This will tend to increase workability and reduce strength. The degree of these effects will depend on the particular mix design and overdose level.

## Curing

As with all cementitious systems, good curing practice should be maintained. Curing is particularly important where retarded screeds or renders are used.

## Estimating

## Packaging

Cebex 705 is available in drum and bulk supply. For larger users, storage tanks can be supplied.

## Storage

Cebex 705 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range then Fosroc should be consulted.

**Freezing point :** Approx. 0°C.

## Precautions

### Health & Safety instructions

Cebex 705 should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and eye/face protection should be worn. Splashes on the skin should be removed with water. In case of contact with eyes it shall be rinsed immediately with plenty of water and medical advice shall be sought. If swallowed medical attention should be sought immediately. Vomiting should not be induced.

### Fire

Cebex 705 is water based and non flammable.

### Cleaning and disposal

Spillages of Cebex 705 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers.

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### Important note :

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