

# HighFlow Air Con500

## Air Entraining Concrete Admixture

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### Product Description

HighFlow Air Con500 is a ready to use air entraining additive that entrain well distributed and correct size air into concrete thanks to its special air entraining components.

### Areas of Application

- On concrete where unit volume weight is low.
- Ready - mixed concrete.
- On concrete which might be exposed to freeze thaw effect.
- All types of concrete where a non-chloride water reducing admixture is required, such as concrete roads, channel, airport runway and field concrete.
- On concrete where lightweight aggregate is used.
- On low-slump concrete.
- On roller compacted concrete.



### Advantages

- Increases endurance against freezing and thawing by entraining air on fresh concrete.
- Increases the workability of fresh concrete and makes pumping easier.
- Prevents resolution, increases cohesion.
- Decreases the amount of mixing water without any workability loss.
- Does not include chloride ions. Does not cause paraphernalia corrosion.
- Let the concrete mixing designs to be formed that have low water/cement rates.
- High early and ultimate compressive strengths.
- Construction also will not need to re-adjust consistency.
- Tightness is achieved in concrete. Homogeneous and cohesive concrete.
- Increases hardened concrete endurance against environmental effect conditions.

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#### Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

#### Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

#### General Considerations

Above-mentioned product information and descriptions are prepared for guidance purposes as a result of our experiences and meticulous studies. The variety of related materials and their different construction and operation conditions can not be controlled or influenced by us individually. For applications beyond our control, the guarantee status is only limited to the quality of sold product. Except the manufacturing of the product, no guarantee is given for application. This technical sheet invalidates all the existing sheets. The quality of the performed job may vary depending on your professional use of the product. If you are hesitant, make a little test or get technical help.

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### Use

HighFlow Air Con500 is ready to use as liquid for fresh concrete mix. It is recommended that it is added to mixing water at ready-mixed concrete production station.

### Consumption

It is recommended that the total binder existing in every type of concrete class mixing design described in EN 206 and EN 13515 standards is used between the rates of 0,05% and 0,20% by weight. This rate changes on concrete mixing design according to requested air quantity, cement features used, aggregate, mineral additive, water components, heat and also according to preferred fresh and hardened concrete features. Therefore, laboratory tests should be performed accordingly with preferred features and usage rate should be determined. Since the air quantity to be entrained to concrete will increase additive dosage to be used, it is expected that concrete strength will fall.

### Standards

HighFlow Air Con500 complies with EN 934-2 Table 5 and ASTM C 260.

### Storage Conditions and Packaging

HighFlow Air Con500 must be stored above 5 0C. In case the product freezes it should be carefully mixed mechanically after thawing for restitution. It is for sale as 25 kg plastic drum, 200 kg drums, 1000 kg plastic cubitainers and bulk.

### Compatibility

HighFlow Air Con500 is compatible with all admixtures produced by Ridge Construction Chemicals. For its compatibility information with other additives, one should consult Ridge Construction Chemicals technical support unit. If one is to use more than one additive substance on mixing design, each substance should be added to the mix separately. It can be used with all cement types compatible with HighFlow Air Con500 and EN 197-1 standard and all mineral additives (fly ash, blast furnace slag, silica fume etc.) compatible with EN 206 and EN 13515 standards. For use on special types of cement, it is recommended to consult Ridge Construction Chemicals technical support unit.

### Cleaning

HighFlow Air Con500 should be washed with fresh cold water.

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### Safety Information

The additive must be kept away from the skin and eyes. In case of any contact, it must be washed with water. When contacted with eyes one must immediately rinse it with water and medical support must be taken. Protective goggles / gloves / mask should be used during the usage of the admixture.

### Fire

HighFlow Air Con500 is nonflammable.

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