

Centrament Air

(Formally Known As MC-Plast AEA)

Chloride-free, Water Reducer and Air Entraining Agent



Product Properties

- Contains no chloride
- Improves workability, thus improving compaction
- Improves Plasticizing properties, cohesion and in resisting freezing and thawing
- Reduction in amount of mixing water required
- Improves compaction
- Reduces water cement ratio, thereby increasing strength
- Increases resilience of mortars
- Resistance to attack by deicing salts and freeze-thaw cycles
- The concrete produced with Centrament Air is homogeneous and free from bleeding
- Air entrainment of microscopic bubbles assists in producing cohesive concrete which reduces segregation

Areas of Application

- Suitable for site produced and ready mix concrete
- Suitable for light weight aggregate concrete
- MC-Plast AEA is particularly suited for pre-cast industries
- MC-Plast AEA is specially suited for preparation of plaster and masonry mortars
- Addition of MC-Plast AEA avoids honey combing
- It can be effectively used as an admixture for concrete prepared at site, ready mix concrete and light weight aggregate concrete

Application Notes

General

Centrament Air is high performance, chloride-free water reducing cum air entraining agent for mortars, Concrete and lightweight aggregate concretes. **Centrament Air** is a concrete plasticizer and water reducing agent used to produce concrete of good workability. **Centrament Air** is suitable for both, site produced and ready mix concrete, where high workability is required.

The introduction of **Centrament Air** brings about improvement in workability on account of its plasticizing properties, cohesion and in resisting freezing and thawing cycles by the entrainment of innumerable microscopic air bubbles of suitable size and spacing, evenly distributed throughout the matrix.

Centrament Air lowers the surface tension of the mixing water. As a result there is considerable reduction in the amount of mixing water required. The plasticizing property of air entrainment assists in producing a dense, uniform, close textured surface, free from gravel nests and honeycombing.

It is compatible with most types of cements, sands and avoids efflorescence. Also, addition of **Centrament Air** increases resistance to attack by deicing salts and freeze thaw cycles.

The concrete produced with **Centrament Air** is homogenous and free from bleeding and also the use of **Centrament Air** reduces water cement ratio, thereby increasing strength.

Instructions for Use

Centrament Air should be used added during the mixing operation. It is necessary to carry out a preliminary site test to determine the amount of air entrained in the fresh concrete or mortars. The dosage of **Centrament Air** depends upon the flow and air entrainment required; Preliminary trials should be conducted at site to determine the optimum dosages.

After addition of the **Centrament Air**, the concrete or mortar should be thoroughly mixed so as to achieve a uniform consistency and homogeneity.

Further Instructions / Precautions

Usage Options

Centrament Air is compatible with most of the other **MC-Admixtures** and this property can be taken advantage of to produce desired results. Especially when high early strength concretes having high resistance against deicing salts are desired as in the case of road concretes, a combination of plasticizer **Zentrament FBV** with **Centrament Air** produces excellent results. It can also be used in combination with all MC- Retarders.

When combining **MC-Schnell OC** with **Centrament Air** the admixing operation should be: **Centrament Air** followed by **MC-Schnell OC**. When a combination of **MC-Retarders** with **Centrament Air** is desired, the **MC-Retarders** should be added prior to addition of **Centrament Air**. This order of addition will guarantee a good stabilization of micropores entrained by **Centrament Air**.

Air Entrainment by use of Centrament Air



Technical Data For Centrament Air

Characteristic	Unit	Value	Comments
Minimum application temperature	°C	20°C	
Mixing ratio	% by weight of cement	0.15% to 0.30%	Depends on application

Product Characteristics for Centrament Air

Type of Product	Chloride free, Water reducing and Air Entraining Agent
Form	Liquid
Colour	Pale yellowish to brown
Shelf Life	12 Months from date of Manufacture
Delivery	250 Kg drums and 30 Kg pails
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times. E. & O.E.

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