

# Centrament OC

(Formally Known As MC-Schnell OC)



## Chloride free, plasticizing and accelerating compound for concrete and mortars

### Product Properties

- Chloride free
- Compatible with all MC-products
- Increase the rate of hydration & lowers the freezing point of fresh concrete
- Has got inherent plasticizing properties in addition to accelerating effect

### Areas of Application

- Suitable as an admixture for all types of concrete, such as reinforced, pre-stressed and pre-cast concretes
- Suitable for placement in relatively cooler atmospheric conditions
- Used at construction sites as well as in transportation of ready-mix concrete

### Application Notes

#### General

**Centrament OC** is a chloride free accelerator for all types of concretes and mortars. It accelerates the setting time of the admixed concretes or mortars thereby providing multiple advantages.

The use of **Centrament OC** permits concreting at temperatures ranging down to -10°C **Centrament OC** increases the rate of hydration and lowers freezing point of fresh concrete. It has inherent plasticizing properties in addition to accelerating effect. **Centrament OC** can be suitably used as an admixture for all types of concretes such as reinforced concrete, pre-stressed or pre-cast concretes.

**Centrament OC** is used at construction sites as well as in transportation of ready-mix concrete. its excellent accelerating properties can be best availed at pre-cast concrete yards, for rapid demoulding of shutters, despite low temperatures.

#### Advantages

**Centrament OC** produces concrete suitable for placement in relatively cooler atmospheric conditions assuring an uninterrupted continuation of work.

The tendency of concrete to exhibit efflorescence is strongly suppressed by the use of **Centrament OC**.

**Centrament OC** combines with soluble salts present in wet cement paste and reacts chemically to lower the freezing point of fresh concrete. It simultaneously brings about acceleration in setting time even at low temperatures. The use of **Centrament OC** plasticizes the mix, enabling reduction of water and subsequent increase strength.

#### Instructions for Use

**Centrament OC** can be used with most types of normal cements. The addition of **Centrament OC** should be done in the course of mixing operation of concrete by means of suitable dosing devices. **Centrament OC** can also be added to the gauging water. Under normal circumstances **Centrament OC** enables quicker demoulding of formworks.

#### Dosage

Since the rate of acceleration of setting of concrete depends on various factors like quality of cement, grading of aggregates, working temperatures etc., a preliminary trial under site conditions is essential to determine the exact proportion of **Centrament OC** to be added to achieve maximum results.

At air temperatures up to 10°C **Centrament OC** should be added at a rate of 1-3% of cement weight.

#### Compatibility

**Centrament OC** is compatible with other MC-Admixtures and this synergistic effect of the product can be put to multiple uses to get desired end results. **Centrament OC** is compatible with **MC Plasticizers, MC-Retarders, MC-Water -proofing Admixtures** and **Air Entraining Agents**. Preliminary trials should be made to ascertain optimum dosage.

## Further Instructions / Precautions

### Precautions

- Keep gauging water to a minimum
- Do not use frozen aggregates
- Areas to be concreted should be free from ice
- Fresh concrete should be so sheltered as to ensure the retention of heat in the element. This factor influences capillary pores and microstructure of concretes
- The rules laid down by concerned authorities for concreting in cold weather, should be strictly adhered to

### Cold Weather Concrete Using Centrament OC



### Technical Data For Centrament OC

| Characteristic                  | Unit                  | Value       | Comments  |
|---------------------------------|-----------------------|-------------|---|
| Minimum application temperature | °C                    | -10°C       |   |
| Mixing ratio                    | % by weight of cement | 1.0 to 3.0% | Depends upon application and preliminary trials |

### Product Characteristics for Centrament OC

|                        |   |
|------------------------|---|
| <b>Type of Product</b> | Concrete Accelerator  |
| <b>Form</b>            | Liquid or Powder  |
| <b>Colour</b>          | Yellowish to Brown  |
| <b>Shelf Life</b>      | 12 Months from date of Manufacture  |
| <b>Delivery</b>        | Liquid: 250 Kg drums and 30 Kg pails; Powder: 30 kg sacks                   |
| <b>Storage</b>         | In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost   |
| <b>Disposal</b>        | 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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