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

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

MC-Schnell 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

MC-Schnell 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 **MC-Schnell OC**

MC-Schnell 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 **MC-Schnell OC** plasticizes the mix, enabling reduction of water and subsequent increase strength.

Instructions for Use

MC-Schnell OC can be used with most types of normal cements. The addition of **MC-Schnell OC** should be done in the course of mixing operation of concrete by means of suitable dosing devices. **MC-Schnell OC** can also be added to the gauging water. Under normal circumstances **MC-Schnell 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 **MC-Schnell OC** to be added to achieve maximum results.

At air temperatures up to 10ºC **MC-Schnell OC** should be added at a rate of 1-3% of cement weight.

Compatibility

MC-Schnell OC is a compatible with other **MC-Admixtures** and this synergistic effect of the product can be put to multiple uses to get desired end results. **MC-Schnell 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.

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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 MC-Schnell OC

Technical Data For MC-Schnell OC

Characteristic	Unit	Value	Comments
Minimum application temperature	ºC	-10 º C	
Recommended Mixing Ratio	% By weight of cement	1.0 to 3.0%	Depends upon application and preliminary trials

Product Characteristics for MC-Schnell OC

Type of Product	Concrete Accelerator
Form	Liquid or Powder
Colour	Yellowish to Brown
Shelf Life	12 Months from date of Manufacture
Delivery	Liquid: 230 Kg drums and 30 Kg pails; Powder: 30 kg sacks
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

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