



Zentrament Super BV

SNF Based Slump Retaining, Retarding Super Plasticizer

Product Properties

- Good early strength Retarding Super plasticizer
- Chloride free
- Reduces the internal friction & thixotropy of the mix
- Substantial increase of early and final strength
- Improvement in rheological properties
- Ideal for Concretes upto 40 MPa in strength

Areas of Application

- As a super plasticizer for ready-mix concrete or site batched concrete
- Also can be used for Pre-cast concrete and Pre-stressed concrete
- For marine and massive structures requiring long slurry retention period
- Can be used with almost all standard cements and other MC-Retarders

Application Notes

General

Zentrament Super BV is a chloride free super-plasticizer and water reducing agent for concrete. It imparts high workability to concrete mixes so that large or difficult pours can be carried out with little compaction. It can also be used to achieve large water reductions in concrete mixes of normal workability thereby producing higher early and final strengths

Advantages

Zentrament Super BV makes concreting operations more efficient, helps to reduce overheads and costs, improves pumping efficiency and provides optimum flow and homogeneity. It also considerably increases the workability and flow properties of the concrete without the need for additional mixing water. It reduces the internal friction and thixotropy of the mix to a minimum without the risk of segregation thereby making pumping operations more efficient.

Zentrament Super BV can also be used as water reducing agent. It ensures greater economy in the amount of mixing water required and so produces high early and final strengths while maintaining good workability. **Zentrament Super BV** is particularly suitable for the pre-cast industry.

Instructions for Use

Zentrament Super BV is to be added to the concrete during mixing & should preferably be dosed along with mixing water additional water. Adding **Zentrament Super BV** to the dry aggregate/cement mix is not recommended. It is most effective when dosed after about 70% of the mixing water has been added to concrete.

The mixing time after addition of the admixture should be long enough to allow the admixture to unfold its plasticizing effect completely

If dosage on the job-site into transit mixer trucks is necessary, please follow corresponding engineering and safety rules.

Add **Zentrament Super BV** at the job-site shortly before placing. The same applies to ready-mix concrete. For best results mix the concrete for 1-5 minutes, depending on power and volume of the mixer. With ready-mix concrete allow 5 minutes, at maximum speed. The flow effect lasts 60-90 minutes after the addition of **Zentrament Super BV**. The concrete should therefore be placed without delay. Please ask us for tailor-made versions of this product for various applications.

Retarders can be added to give longer period of workability without loss of slump.

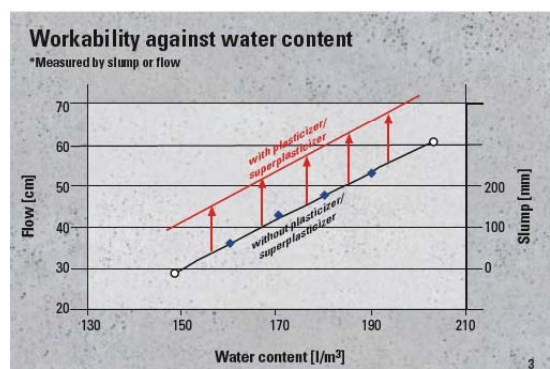
Dosage

Recommended dosage of **Zentrament Super BV** is 0.5%-1.0% by weight of cement. However it is recommended that site trials be taken to determine optimum dosage. In certain cases due to variations of cement, sand, aggregates, weather or site conditions dosages may vary from recommendations. **Zentrament Super BV** can be used in combination with other MC Admixtures.

Further Instructions / Precautions

- To determine individual technical suitability, preliminary tests should be carried out under application conditions. We shall be glad to assist you for your concrete technology testing/needs.
- Relevant standards for production, placing and curing of concrete should be followed.
- Efficient curing is essential for any concrete and is best-achieved using **Emcoril** range of curing compounds. This will avoid negative effects of quick water loss from the concrete.
- Depending upon the concrete mix severe over dosage of the admixture especially retarding plasticizers and superplasticizers may result in bleeding/segregation of concrete quick loss of workability, extended initial and final setting times etc.
- Slight overdosing may not severely affect the ultimate strength of concrete provided the concrete is properly mixed, handled and placed and adequately compacted and cured.

Graph Showing Workability of Concrete versus the Water content of the mix with and without use of Superplasticizers



Technical Data For Zentrant Super BV

| Characteristic | Unit | Value | Comments |
|----------------|-----------------------|--------------|---|
| Density | Kg / Litre | Approx. 1.12 | ± 0.02 |
| Mixing ratio | % by weight of Cement | 0.5% to 1.0% | Dosages may vary significantly from recommendations, due to site conditions (materials and temperature). Please confirm dosages by preliminary site trials. |

Product Characteristics for Zentrant Super BV

| | |
|------------------------|---|
| Type of Product | Retarding Superplasticizer |
| Form | Liquid |
| Colour | Brown |
| Shelf Life | 12 Months from date of Manufacture |
| Delivery | 230kg drums and 30kg cans |
| 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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