



# Zentrament F BV

## SNF based High early strength super plasticizer

### Product Properties

- High early strength Super plasticizer
- Chloride free
- Highly pumpable concrete requiring minimum compaction
- Reducing the Bleeding & Segregation in Concrete
- Chemical & Physical working mechanism
- Ideal for Concretes upto 40 MPa in strength

### Areas of Application

- As a super plasticizer for ready-mix concrete
- Also can be used for Pre-cast concrete and Pre-stressed concrete
- For speedy construction of work where early de-molding is required
- Can be used with all standard cements

### Application Notes

#### General

**Zentrament F BV** is a high early strength super plasticizer especially formulated for concretes designed for high strengths. The super plasticizer based on selected SNF polymers is free from chlorides and aids concretes in attaining high early and final strengths. The concretes with **Zentrament F BV** are homogenous and free from bleeding and segregation. The super plasticized concretes are pumpable and require minimum compaction. **Zentrament F BV** meets requirements of IS 9103.

#### Advantages

**Zentrament F BV** is suitable for use in pre-stressed as well as pre-cast industry while manufacturing elements like beams, columns, slabs and also for railway sleepers, concrete piles, rails, posts, electricity poles, concrete, pipes etc. The development of strength is rapid enough to enable early stripping of formwork ensuring speedy constructions as well as overall economy on account of lesser formwork requirements.

Approximate one-day strength of concretes with **Zentrament F BV** is 1.5 times that of reference concrete. About 20% cement can be saved while maintaining the same slump and strength.

#### Instructions for Use

**Zentrament F BV** is to be added to the concrete during mixing & should preferably be dosed along with mixing water additional water. Adding **Zentrament F 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.

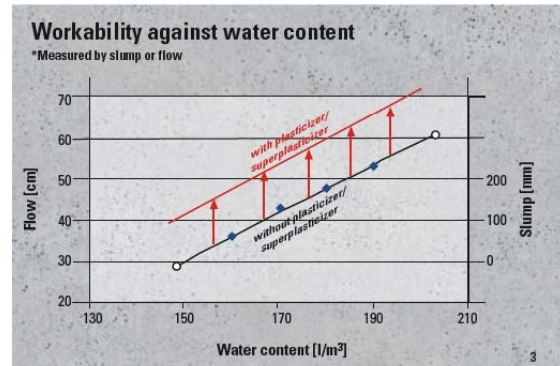
#### Dosage

Recommended dosage of **Zentrament F BV** is 0.8%-1.6% 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 F 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 Zentrment FBV

Characteristic	Unit	Value	Comments
Density	Kg / Litre	1.07	± 0.02
Mixing ratio	% by weight of	0.8% to 1.6%	For flow concrete
	Cement	1.5% to 3.0%	For high early strength

### Product Characteristics for Zentrment FBV

<b>Type of Product</b>	SNF Based Superplasticizer
<b>Form</b>	Liquid
<b>Colour</b>	Brown
<b>Shelf Life</b>	12 Months from date of Manufacture
<b>Delivery</b>	230kg drums and 30kg cans
<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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