



# Cimplast DB 100

## Plasticizer / Water reducer

**Cimplast DB 100** is a plasticizer / water reducer. It complies with the EN 934-2. **Cimplast DB 100** is an additive that enables cement grain deflocculation which improves workability.

Its incorporation into the concrete provides :

- a better water / cement ratio, hence highly increased short and long term mechanical resistance,
- improved workability (ideal for pumped concrete),
- a better compactness,
- a better homogeneity avoiding segregation, hence an improved surface aspect.
- it is particularly adapted to slag cement types (CEM III) as it keeps them a very good workability.

### CHARACTERISTIC VALUES

- Brown liquid
- Density at 20°C :  
1.180 kg/dm<sup>3</sup> ± 0.030
- pH : 11 ± 1.0
- Dry matter : 38.0 % ± 1.9 %  
(halogen)
- Dry matter : 38.3 % ± 1.9 %  
(EN 480-8)
- Na<sub>2</sub>O<sub>equivalent</sub> : ≤ 6.0 %
- Cl - : ≤ 0.10 %
- Freezing temperature point :  
about - 5°C.
- Viscosity :  
at 20° C ≈ 40 cP  
at 5° C ≈ 70 cP
- Corrosion effect : PND  
- contains components only taken from EN 934-1 : 2008 Annex A1.

### FIELD OF APPLICATION

**Cimplast DB 100** is a must for all pumped, reinforced and prestressed, high performance concretes.

**Cimplast DB 100** is compatible with all cement types (except high alumina cement) but dosage will vary according to the type used.

**Cimplast DB 100** is a plasticizer adapted to slag cement types.

## DIRECTIONS FOR USE

**Cimplast DB 100** is best added to the gauging water when used at low dosage so that it is easy to use in all cement mixing plants.

Beyond 0.6 %, it is better to delay its incorporation.

**WARNING** : At low temperature, there can be a retard setting in case of excessive dosage.

## STANDARDIZATION TRIALS

Trials according to the EN 934-2 norm, carried out on a CEM I 42.5 CP2.

Concrete dosed at 350 kg/m<sup>3</sup> of cement.

Dosage : d= 1.0%

Dosage	Water in L/ m <sup>3</sup>	Resistances in Mpa units	
		7 days	28 days
Control	192	27	34
Concrete with additive at 1%	176	32.5	40.5

## DOSAGE

- Depending on the effect desired : from 0.15 to 2.0 kg per 100 kg of cement. Before use, it is recommended to carry out research and suitable tests under building site conditions (temperature and route).
- At high dosage, **Cimplat DB 100** increases plasticity and makes possible to obtain fluid concrete.

## PRECAUTIONS FOR USE

- **Cimplast DB 110** can bear several frost/melting cycles without damage but must be entirely thawed and re-homogenized before use.
- It is recommended to store it in a location protected against frost, sun and high temperatures.

## SAFETY

- In case of projection, rinse with water.
- It is recommended to wear glasses and gloves when handling the product.
- In all cases, refer to the material safety data sheets.

## PACKAGING

- Bulk
- Tanks of 1000 liters.
- Barrels of 200 liters.
- Kegs of 30 liters.

## SERVICE LIFE

- Expiration date : 1 year as of manufacturing date.

*The material technical and safety data sheets can be consulted on our internet site :  
<http://www.axim.fr>*