

BETTOMENT

Melamine Sulfonate Based, High Ratio
Water Reducing / Superplasticizing Concrete Admixture

MATERIAL DESCRIPTION

BETTOMENT is a melamine sulphonate based, super plasticizing concrete admixture that reduces the water/cement ratio of concrete and increases its early high strength. Public Works Poz No:

04. 613 / 1-A3 TS EN 934-2 Table 3.1 and Table 3.2: Highly Water Reducing / Superplasticizing Concrete Admixture ASTM C 494 Type F: Highly Water Reducing Complies with Concrete Admixture Standards.

AREAS OF USE

- In precast and prefabricated concrete production,
- Cold climate concrete castings,
- Production of prestressed concrete with low water/cement ratio,
- Where early mold must be removed,
- In the production of colored precast concrete,
- In rheoplastic concretes that can be easily placed in densely reinforced concrete elements,
- It is used in concrete castings produced with zero - slump.

TECHNICAL SPECIFICATIONS

Structure of the Material	Melamine Sulfonate Based
Color	Colorless
Density	1,18 ± 0,01
Chlorine Content	(EN 480-10) < 0.1
Alkali Content	(EN 480-12) < 5.98
Compressive Strength	(EN 12390-3) → appropriate
Air Quantity	(EN 12350-7) → appropriate
Consistency Protection	(EN 12350-2)
Collapse and Spread	(EN 12350) → appropriate

Note: The above values were obtained at + 23 °C and 50% relative humidity.

ADVANTAGES

- Reduces the amount of water by at least 12% by weight compared to concrete without admixtures,
- Compared to concrete without admixtures, it provides lower water/cement ratio with the same workability or high workability and easy pumpability with the same water/cement ratio.
- Increases early and final strengths compared to concrete without admixtures.
- Increases the compressive and flexural strength of concrete compared to concrete without additives.
- Reduces demolding time compared to concrete without admixtures.
- Improves the abrasion resistance of concrete by reducing segregation and perspiration,
- Increases the resistance of concrete against freezing and thawing cycles,
- Improves other mechanical properties of concrete such as impermeability, durability, shrinkage and creep,
- It settles with less vibration even in densely reinforced concrete structures,
- **BETTOMENT** does not contain chlorine.



APPLICATION METHOD

The binder (cement-micro silica-fly ash-slag) and aggregate should be mixed until a homogeneous mixture is obtained. After adding 50% - 70% of the water to be added to the mixture, **BETTOMENT** should be added to the mixture with the remaining water. **BETTOMENT** should be mixed preferably for 60 seconds or for the time determined in laboratory tests in order to distribute **BETTOMENT** homogeneously in the mixture.

DOSAGE

BETTOMENT is recommended to be used at a ratio of 1.0 - 2.0 kg per 100 kg binder (cement-micro silica fly ash-slag). The dosage should be determined by laboratory tests in advance according to the concrete class and properties.

COMPATIBILITY WITH OTHER ADDITIVES

BETTOMENT can be used compatible with the following materials.

1. Used with all cement types
2. It is used with mineral additives such as micro silica, fly ash and slag where a high proportion of binder material is required.
3. Used in combination with air entraining additives to increase freeze - thaw resistance.
4. In combination with BETTOLATEX, shrinkage is prevented.
5. It is used together with synthetic and steel fibers against cracks caused by plastic shrinkage.
6. In environments with high temperature and intense air flow; in order to prevent the evaporation of the mixture water in the concrete, the appropriate curing materials such as BETTOCURE P, BETTOCURE ACR are selected and used.

PACKAGING

35 kg plastic drums and 230 kg barrels.

SHELF LIFE

12 months from the date of production under appropriate storage conditions. Opened packages can be resealed and used throughout their shelf life.

STORAGE

It should be stored in its original packaging in places where the ambient temperature is above +5 °C. If the material that is not stored in suitable environments freezes, the product should be thawed by keeping it at room temperature without using direct heat and should be mixed by mechanical methods until it becomes homogeneous. Compressed air should not be used in the mixing process.

SECURITY MEASURES

During application, work clothes, protective gloves and goggles should be worn in accordance with Occupational Health and Safety rules. Avoid contact with skin and eyes during storage and application, in case of contact, wash immediately with plenty of water and soap, and in case of ingestion, consult a doctor immediately. Food and beverage products should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, Material Safety Data Sheet should be consulted.

RESPONSIBILITY

The data contained in this technical document are based on our scientific and practical knowledge. BETON Construction Chemicals San. ve Tic. Ltd. Şti. is solely responsible for the quality of the product. BETON Construction Chemicals San. ve Tic. Ltd. cannot be held responsible for any consequences that may occur due to misuse and/or misuse other than the written recommendations on where and how to use the product. Ltd. Şti. cannot be held responsible.

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1020 - CPR - 040 051246 DOP NO:93411 EN 9342	
BETTOMENT Bettoment i s a polycarboxylic ether based, highly plasticizing concrete admixture that reduces the water/cement ratio of concrete, increases the durability and early strength of concrete. Table 3	
Chloride Content	Class 1
Alkali Content	Max. 0.1 kg/m ² h ₂ O.5
Water Reduction	% 12
Compressive Strength	247.5% in 1 day 114.8% in 28 days
Air Amount in Fresh Concrete	% 0.2
Dangerous Goods	Appendix ZA is suitable

