

TECHNICAL DATA SHEET

ADDAGE PLAST ES

(Melamine based water reducing admixture)

PRODUCT DESCRIPTION

Addage Plast ES is new generation concrete admixture. It is melamine based effective superplasticizer for concrete. It is a high range water reducing admixture and gives high early and final strength to the concrete. It also gives early removal of formwork or mould. It increases the workability of concrete mix and lower water requirement that leads to a concrete of higher compressive strength and improved durability.

PROPERTIES

High water reduction and Improved Workability:

Theoretically, a water/cement ratio of about 0.28 is adequate for the hydration of cement, so any water in excess of that amount in concrete for improving the workability will reduce the compressive strength of concrete. It is also well known that decreased water/cement ratios result in cured concrete of improved strength. Addage Plast ES is capable of reducing the water quantity by 20-30% depending on dosage and yet giving workable concrete. As workability is improved, high strengths concrete can be placed with less mechanical

High early and final compressive strength:

The capability of Addage Plast ES to be able to reduce water to a great extent helps it to give higher final strength to the concrete. Moreover, the effective dispersing property minimizes the porosity of the concrete and strong intermolecular bonds formed lead to very high early strength. vibrations.

Air entrainment:

Approximately 1% additional air is entrained

TECHNICAL SPECIFICATION

Test	Result
Appearance	Colorless to slightly color liquid
Chemical Content	Melamine based admixture
Ionic nature	Anionic
Sp. Gravity at 30 ⁰ C	1.15 ± 0.02
Dry material Content %	40 ± 0.2
Viscosity	15 ± 3 Sec

The information given in this data sheet corresponds to the experience so far gained in plant and laboratory. It can be used for reference purpose only. We are not responsible for any unexpected result.

ADVANTAGES

High workability of concrete is achieved.

High water reduction can be done. Lesser water leads to higher final strength.

It gives high early strength which facilitates faster.

Bleeding and segregation is minimized.

A much higher dimensional stability of concrete is achieved due to excellent dispersion and higher intermolecular bond strength.

Decreases the concrete porosity and modifies its morphology.

Shrinkage control of concrete is achieved because of reduced water.

METHOD OF APPLICATION

The dosage of Addage Plast ES depends on the required final results at each site. Generally a dosage of 0.5%-1.5% of the cement shows very good results. Preliminary trials should be conducted at the job-site to determine optimum dosage. Addage Plast ES should normally be added on site just before placing. For site-produced concrete Addage Plast ES can be added directly to the mix.

Addage plast ESN should be added only after thoroughly mixing cement, sand, coarse aggregates and water at least for 1 minute. After addition of Addage Plast ES also the concrete should be thoroughly mixed for one minute so as to achieve a uniform consistency of mixing.

DOSAGES

We recommended a dosage of 0.5%-1.5% of the cement shows very good results.

STORAGE

Material stored in a dry environment at temperatures room temperature. It should be preferably stored in shade.

SHELF LIFE

Addage Plast ES has a shelf life of 12 months in unopened containers kept properly.

PACKING:

Addage Plast ES available in 60 kg Can & 250 kg barrel.

