

SUPER PLASTICIZER FOR CONCRETE & HIGH DEGREE WATER REDUCER

DESCRIPTION

TECHNOPLAST R® is a high degree water reducer and superplasticizer additive for concrete. It increases the early strength of the concrete and adjusts the setting time. It does not contain chloride or any other substance that effects the reinforcement and concrete in long time period.

STANDARTS

TECHNOPLAST R® conforms to ASTM C 494 Type G and EN 934-2 Table: 11.1 and 11.2 Set Retarding / High Range Water Reducing/Super Plasticizing admixture. TECHNOPLAST R® is signed with the CE marking according to the technical requirements of the European Standard EN 934-2.

APPLICATION

- TECHNOPLAST R® is used widely for the applications:
- At which high strength is required, early from release is desired, and higher pumpability is preferred, as prestressed concrete.
- The section to be placed without voids and neat outer surface is important.
- Requirement of gauging water can be reduced by 20% with correct mix design and monitoring, minimizing segregation risk in fresh concrete. With respect to reduction of the gauging water, increases the compressive strength by minimum 40% in one day and by 15% in 28 days.
- When mixed into ready mix concrete perfect workability is obtained and causes reduction of the requirement for vibration in compaction.

ADVANTAGES

- Regarding the dosage used requirement of gauging water can be reduced by 12%-25%. Regarding the dosage used minimizes the slump losses.
- Increases the workability time without the risk of segregation.
- Gauging water requirement can be reduced without affecting the workability. Respect to the reduction of gauging water, increases the final strength.
- During setting of the concrete, increases the reaction rate of strength gain. Compatible with other Agel Chemicals additives.
- Reduces the water/cement ratio in order to obtain homogeneous and compact concrete.

METHOD OF APPLICATION

Considering cement and aggregate properties and dosage, together with slump and strength increase required. Useful dosage is between 0.6 to 1,5% of cement by weight. The optimum dosage should be determined through the tests at jobsite.

PHYSICAL PROPERTIES

Type	Mixture of Naftalin Sulphonate and organic polymer.
Appearance	Dark brown colored liquid
Density (ca.)	1,10, 03 kg/L
pH	6,50 – 8,00
Chloride content	≤ 0.1% (EN 480-10)
Na2O equivalent	≤ 10% (EN 480-12)

PACKING

TECHNOPLAST R® is supplied in 20 kg pail, 250kg steel drums, 1100kg ibc tanks. and bulk.

STORAGE

TECHNOPLAST R® has 18 months shelf life in sealed and undamaged containers. The storage is to be done in places protected against freezing.

SAFETY

TECHNOPLAST R® is a nontoxic material. No special precaution is required during handling. For detailed information MSDS is available.

Regarding the design, development, production and distribution of its products.

The details for our products and their possible uses indicated above should be understood as advisory only, to the best of our knowledge. The details do not constitute any guarantee or legal commitment and must be verified for each individual application.