

S.P.A.PLAST-R HIGH RANGE WATER REDUCER / SUPER PLASTICIZER AND RETARDING ADMIXTURE

DESCRIPTION

S.P.A.PLAST-R is high range water reducer and super plasticizing admixture with controlled retardation.

It meets the requirements of the following standards:

ASTM C494/C494 M TYPE G, EN 934 and ISIRI 2930

APPLICATION

- Hot weather concreting where controlled delay to initial set is importance
- Slabs, foundations, columns, shear and retaining walls, deck bridges, etc.
- Enables production and transportation of concrete over long distances
- Design of concrete mixes with crushed aggregates

ADVANTAGES

- Reduces water-cement ratio up to 20%
- Extends setting time in hot weather concreting
- Increase workability and workability retention of concrete
- Improves pumpability of concrete and reducing depreciation of concreting Equipments
- Improves concrete consistency
- Considerably reduces permeability
- prevents decrement of final compressive strength of concrete
- It can be used with all types of Portland cement
- Use simultaneously with silica fume, fly ash and other Pozzolan materials
- Prevents creep and shrinkage of concrete
- Prevents cold joint in over long concreting

DOSAGE

The optimum dosage of S.P.A.PLAST-R can be determined by trials in the site. Depending on concrete mix design (sizes and types of aggregates, cement content, water/cement ratio, ambient temperature and concreting conditions), a dosage of between 0.45 and 1.2 percent by weight of cement or cementitious material is recommended.

A severe over dosage of S.P.A.PLAST-R will result over retardation of initial and final set.

For use with other range of dosage, contact ABADGARAN Technical Services Department.

Note: Please contact our engineering office in case of simultaneously use of more than one admixture.

DIRECTION OF USE

1- S.P.A.PLAST-R could be added to a part of concrete mixing water then added to the concrete mix.

2- S.P.A.PLAST-R could be added to the concrete mix during the mixing cycle at the same time as the water or the aggregate or it could be added to ready-mix concrete before placing concrete.

3- Admixtures must be weighed carefully.



PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity: 1.20+ 0.05 g/cm³
Physical state: Liquid
Color: Dark brown
Chloride content: Nil to EN 934

STORAGE

Shelf life: 1 year in the original package
Storage condition: should be protected from direct sunlight and frost. Keep container in the temperature range between +10°C and +30°C.
Packing: 24 kg container or 1000 kg tank

HEALTH AND SAFETY

This product does not contain any substances hazardous to human health and the environment. However, it should not be swallowed and contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water. S.P.A.PLAST-R is not flammable. For further information refer to the material safety data sheet.
MSDS is available at ABADGARAN website.

TECHNICAL SERVICE

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

