

S.P.A.PLAST-404**HIGH RANGE WATER REDUCER / SUPER PLASTICIZER AND RETARDING ADMIXTURE****DESCRIPTION**

S.P.A.PLAST-404 is a 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 INSO 2930

ADVANTAGES

- Reduces water-cement ratio up to 20%
- Excellent workability and workability retention of concrete
- Excellent pumpability of concrete
- It can be used with all types of Portland cement
- Improves concrete consistency
- Prevents creep and shrinkage of concrete
- Considerably reduces permeability
- Increases the compressive strength of concrete

APPLICATION

- Enables production and transportation of concrete in normal weather conditions
- Mass concrete
- Slabs, foundations, columns, shear and retaining walls, deck bridges, etc.

DOSAGE

The optimum dosage of S.P.A.PLAST-404 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 1.0 percent by weight of cement or cementitious material is recommended.

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

DIRECTION OF USE

1-S.P.A.PLAST-404 could be added to a part of concrete mixing water then added to the concrete mix.

2- S.P.A.PLAST-404 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.



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مرکز ملی تائید صلاحیت ایران
ISO / IEC 17025



مجوز صادرات
به اتحادیه اروپا



استاندارد ملی ایران



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PHYSICAL AND CHEMICAL PROPERTIESSpecific gravity: $1.14 \pm 0.05 \text{ g/cm}^3$

Physical state: Liquid

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 $+10^\circ\text{C}$ and $+30^\circ\text{C}$.

Packing: 22 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-404 is not flammable. For further information refer to the material safety data sheet. MSDS is available at ABADGARAN GROUP website.

TECHNICAL SERVICE

The ABADGARAN 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.

All data presented in this technical datasheet are based on our last researches in ABADGARAN CONSTRUCTION CHEMICALS laboratories and are just as a guide for choosing appropriate material. Therefore users should conduct a sufficient investigation to establish the suitability and conformity of any product for intended uses.

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