

POWER PLAST-SM
PC HIGH RANGE WATER REDUCER / SUPER PLASTICIZER ADMIXTURE**DESCRIPTION**

POWER PLAST-SM is high range water-reducer and super plasticizing admixture based on modified polycarboxylic (PC) polymers. It acts efficiently to give controlled workability about 90 minutes. It meets the requirements of the following standards:
ASTM C1017/C1017 M, ASTM C494/C494 M TYPE F
EN 934
INSO 2930

FIELD OF APPLICATION

- Reduces cement content in concrete
- Reduces water/cement ratio
- Creating fluidity of concrete before setting (increased concrete workability)
- Prevents bleeding and segregation of concrete
- Eliminates air content of concrete
- Improves concrete consistency
- Improves pumpability of concrete
- It can be used with all types of Portland cement including Sulphate Resisting.
- Use simultaneously with silica fume, fly ash and other pozzolanic materials
- Enables production and transportation of concrete over long distances
- Increases the compressive strength of concrete

APPLICATION

- Ready-mix concrete
- Mass concrete
- Produces concrete with fractured coarse aggregates
- Suitable for cast in place and pumpable concrete

DOSAGE

The optimum dosage of POWER PLAST-SM 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 0.4 and 0.8 percent by weight of cement or cementitious material is recommended.

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

DIRECTION OF USE

1-POWER PLAST-SM could be added to a part of concrete mixing water then added to the concrete mix.

2- POWER PLAST-SM 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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PHYSICAL AND CHEMICAL PROPERTIES

Chemical base: modified polycarboxylic (PC) polymers
Specific gravity: $1.18 \pm 0.05 \text{ g/cm}^3$
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 moisture. Keep bag 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 or allowed to be in contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water. For further information refer to the material safety data sheet. POWER PLAST-RM is not flammable. 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.

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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