

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

POWER PLAST-R is a high range water reducing and super plasticizing admixture based on modified polycarboxylic (PC) polymers. It provides excellent slump retention.

It meets the requirements of the following standards:

ASTM C1017/C1017 M, ASTM C494/C494 M TYPE F

EN 934

INSO 2930

**ADVANTAGES**

- Provides excellent slump retention
- Reduces cement content in concrete
- Less or no vibration needed
- Reduces rate and heat of hydration
- Improves concrete consistency
- Improves pumpability of concrete
- Compatible with all Portland cement types
- Can be used simultaneously with silica fume, fly ash and other pozzolanic materials
- Enables production and transportation of concrete over long distances
- Prevents cold joint and cracks
- Increases the compressive strength of concrete
- Removes air bubbles in fresh concrete resulting in less air voids in hardened concrete

**APPLICATION**

- Hot weather concreting
- Transportation of concrete over long distances
- Mass concrete
- Exposed concrete
- Concreting in thin and congested steel reinforcement sections
- Concrete pavements, bridges, sewage works, etc.

**DOSAGE**

The optimum dosage of POWER 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 between 0.3 and 1.0 percent by weight of cement or cementitious material is recommended.

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.



موسسه استاندارد و تحقیقات صنعتی ایران  
تائیدیه صلاحیت آزمایشگاه همکار



مرکز ملی تائید صلاحیت ایران  
ISO / IEC 17025



مجوز صادرات  
به اتحادیه اروپا



استاندارد ملی ایران



**DIRECTION OF USE**

- 1- POWER PLAST-R could be added to a part of concrete mixing water then added to the concrete mix.
- 2- POWER 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- Admixture must be weighed carefully.

**PHYSICAL AND CHEMICAL PROPERTIES**

Chemical base: modified polycarboxylic (PC) polymers

Specific gravity:  $1.09 \pm 0.05 \text{ g/cm}^3$

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 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-R 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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