

ABAPLAST WR-4610
PC HIGH RANGE WATER REDUCER / SUPER PLASTICIZER ADMIXTURE**DESCRIPTION**

ABAPLAST WR-4610 is high range water-reducer and super plasticizing admixture based on modified polycarboxylic (PC) polymers. It acts efficiently to give controlled workability about 180 minutes.

It meets the requirements of the following standards:
ASTM C1017/C1017 M, ASTM C494/C494 M TYPE F
EN 934
INSO 2930

ADVANTAGES

- Reduces cement content in concrete
- Creating fluidity of concrete before setting (increased concrete workability)
- Design of concrete mixes with water-cement ratios in the range of 0.3 to 0.4
- No needs for vibrators
- 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
- Prevents cold joint
- Increases the compressive strength of concrete
- Allows reduction of curing cycles - i.e. time or temperature.

APPLICATION

- Hot weather concreting
- Exposed concretes
- Mass concrete
- Concreting in thin and congested steel reinforcement sections
- Produces High Performance Concrete (HPC)
- Produces High Strength Concrete (HSC)
- Produces Self-Consolidating Concrete (SCC)
- Produces Water Resistant Concrete (WRC)
- Produces Preplaced Aggregate Concrete (PAC)

DOSAGE

The optimum dosage of ABAPLAST WR-4610 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 0.3 and 0.9 percent by weight of cement or cementitious material is recommended.

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



موسسه استاندارد و تحقیقات صنعتی ایران
تأییدیه صلاحیت آزمایشگاه همکار
مرکز ملی تأیید صلاحیت ایران
ISO / IEC 17025
مجوز صادرات
به اتحادیه اروپا
استاندارد ملی ایران

تهران، خیابان سهروردی شمالی، خیابان شهید قندی غربی، ساختمان شماره ۱۲۴، واحد ۱ تلفکس: ۸۷۷۵۴

www.abadgarangroup.com

info@abadgarangroup.com



واحد تولیدی نمونه ملی

DIRECTION OF USE

- 1-ABAPLAST WR-4610 could be added to a part of concrete mixing water then added to the concrete mix.
- 2- ABAPLAST WR-4610 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

Chemical base: modified polycarboxylic (PC) polymers

Specific gravity: $1.13 \pm 0.05 \text{ g/cm}^3$

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.

ABAPLAST WR-4610 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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