## PUMKRET
### SUPER PLASTICIZING / WATERPROOFING SLURRY WITH HIGHLY POZZOLANIC ACTIVITY FOR READY-MIXED CONCRETE

### DESCRIPTION
PUMKRET is an advanced concrete admixture which improves the rheological properties of concrete and could be added to the concrete mixtures at the job site. It is used for designing high performance concrete and multipurpose concrete mixtures. PUMKRET is based on a highly pozzolanic mineral material which significantly reduces water absorption and permeability of concrete, in addition improves workability. High range water reduction is one of the most exceptional properties of PUMKRET.

PUMKRET comprises the following chemicals:
1. Pozzolanic materials
2. Super plasticizer
3. Waterproofing agent
4. Suitable rheology modifiers for concrete

It could be controlled by below mentioned standards:
ASTM C1202
BS EN 12390-8, BS 1881-122

### ADVANTAGES
- Reduces water-cement ratio
- Increases workability and workability retention of concrete
- Improves pumpability of concrete and reducing depreciation of concreting equipment
- Reduces cement content of concrete between 10 to 15 percent
- It can be used with all types of Portland cement
- Increases the compressive strength of concrete about 20%-50%
- Considerably reduces permeability of concrete
- Reduces chloride ion penetration and any other destructive chemicals influence
- Reduces the potential for AAR (Alkali-Aggregate Reaction)

### APPLICATION
- Improving the quality of ready-mixed concrete (Foundation, Deck, Column, Shear walls, etc.)
- Suitable for marine environments or the regions exposed to chemicals attack, e.g. southern and northern Iran and saline regions
- Docks, deck bridges, tanks, etc.
- Design of concrete mixes for Water and Wastewater Treatment
- To make impermeable ready-mixed concrete
- Hot weather concreting

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تاییدیه صلاحیت آزمایشگاه همکار

مرکز ملی تایید صلاحیت ایران
ISO / IEC 17025

مجوز صادرات
به اتحادیه اروپا

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## DOSAGE
The optimum dosage of PUMKRET can be determined by trials in the site. Depending on concrete mix design (concrete type, workability, sizes and types of aggregates, cement content, ambient temperature and concreting conditions), a dosage of between 3.0 and 8.0 percent by weight of cement is recommended.
For use with other range of dosage, contact ABADGARAN Technical Services Department.
Please contact our engineering office in case of simultaneously use of more than one admixture.

## DIRECTION OF USE
PUMKRET could be added to ready-mixed concrete before placing concrete.
Note: PUMKRET could be used for making concrete in batching plants.

## PHYSICAL AND CHEMICAL PROPERTIES
Physical state: Slurry
Specific gravity: $1.65\pm0.1$ g/cm$^3$
Color: Brown

## 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°C and +30°C.
Packing: 25 kg pail

## 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. PUMKRET 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.