

E.M.WATERPROOF WATERPROOFING POWDER

E.M.WATERPROOF is a sealer powder which promotes concrete hydrophobic properties. E.M.WATERPROOF is utilized as the best waterproofing filler for filling the microscopic pores & capillaries of concrete. E.M.WATERPROOF improves rheology of fresh concrete; also it can modify particle size distribution of aggregates.

It meets the requirements of the following standards:

ASTM C1202, ASTM C1585
BS EN 12390-8, BS 1881-122

APPLICATION

- Produces Non-Osmosis Concrete and Water Resistant Concrete (WRC)
- Suitable for marine environments or the regions exposed to chemicals attack, e.g. southern and northern Iran and saline regions
- Design of concrete mixes for water and wastewater treatment, dams, docks, deck bridges, tanks, etc.
- Produces impermeable precast concrete

ADVANTAGES

- Improves particle size distribution of aggregates
- Considerably reduces permeability
- Inhibits chloride ion penetration and any other destructive chemicals influence
- Reducing the potential for A-A-R (Alkali-Aggregate Reaction)
- No negative effect on the compressive strength of concrete
- Easy to mix with concrete

DOSAGE

The optimum dosage of E.M.WATERPROOF can be determined by trials in the site. Depending on concrete mix design, a dosage of between 1.0 and 2.0 percent by weight of cement is recommended.

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

DIRECTION OF USE

1-E.M.WATERPROOF 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.

2-E.M.WATERPROOF must be simultaneously used with water-reducer agents. Recommend E.M.WATERPROOF added to concrete after adding water-reducer agents.

3- Admixtures must be weighed carefully.

TECHNICAL NOTE

Among the major reasons of concrete permeability are the existence of microscopic pores and capillaries in concrete. The best theoretically and practically reasonable method for the preparation of impenetrable concrete is using of E.M.WATERPROOF as a hydrophobic filler for filling the microscopic pores & capillaries of concrete with concrete water-reducer agents.



PHYSICAL AND CHEMICAL PROPERTIES

Type of E.M.WATERPROOF	POWDER	LIQUID
Specific gravity (g/cm ³)	1.15+ 0.15	1.20+ 0.05
Physical state	Powder	Liquid
Color	White	Milky
Chloride ion	Nil	Nil

STORAGE

Shelf life: 1 year in the original package

Storage condition: Should be protected from direct sunlight and moisture. Keep in the temperature range between +10°C and +30°C.

Packing:

Powder: 25 kg bag

Liquid: 20 kg container

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. E.M.WATERPROOF is not flammable. For further information refer to the material safety data sheet.

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.

