



شركة كويك ميكس
مركز الإضافات الأسمنتية
الناعمة و مواد البناء عالية التكنولوجيا

W.R

Product description:

W.R is a cement-additive, designed to completely stop water and moisture leakage through concrete and mortar.

The idea behind **W.R** is a chemical reaction between **W.R** and calcium carbonate found in cement to produce calcium silicate (i.e. crystal-like particles) that fill voids in concrete or mortar and perfectly prevent water seepage.

Scope of use:

W.R is an excellent choice and strongly recommended as a cement-additive to the mortar used in isolating:

- Swimming Pools, aqua Parks
- Water tanks, fountains
- Foundations, basements, garages,
- Buildings roofs
- Cement pipes, tunnels
- sewage stations, bathrooms
- Artificial lakes, canal, dams
- Marine & coastal constructions, harbors
- Fish farms
- Land escapes

Technical specifications:

Product Form	powder
Product Color	white
Standards	ASTM C- 494 TYPE A
Over-Head Pressure	Up To 7 bars (+) or 3 bars (-) [in case of using Phara Proof Product for cement isolation as 2 coats painting on Mortar]
Usage	1-2 kg W.R/50 kg cement/ 150 kg sand
Water/ W.R ratio	Less than usual amount by 10% -15%
Coverage Rate	20 m ² in case of 1 cm thickness of applied mortar [this coverage rate decreases linearly when thickness increases]
Package	cartoon box contains 10 plastic packets each packet 1 kg
Shelf-life	1 year

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Advantages:

W.R is highly recommended cement-additive for mortar and has the following great advantages:

- **W.R** mortar application on cement surfaces or bricks (any kind of bricks) results in having a mortar surface that is perfectly isolated against water and humidity (in case of applying 2 coats of **Phara Proof** as a paint over it)
- **W.R** mortar can easily resist enormous hydro static pressure up to **7 bars(+)** and **3 bars (-)** [in case of applying 2 coats of **Phara Proof** as a paint on it]
- Mortar that contains **W.R** Provides an excellent cohesion on porous or non-porous surfaces
- **W.R** mortar has high flexibility, adhesion and severity with the back surface
- Mortar or cement surfaces which contain **W.R** additive can easily resist the friction caused by the movement of workers and light trucks
- **W.R** mortar effectively resists the impact of Carbon dioxide and chlorides ions
- **W.R** mortar is 100% over – paintable

Important notes:

- **W.R** packet should be used once at a time and not divided
- **W.R** is a ready-to-use product and does not require the use of any other additives
- **Increasing** the dose of **W.R** does not affect mortar properties it just prolongs hardening time

Applications:

First: Preparing surface

Before applying **W.R** mortar on Masonry wall, the surface should be cleaned to be free of (dust, sands, grease, oils, wood or metal slabs, or any painting materials).

Second: Using W.R as a mortar:

To make mortar using **W.R**, mix **1-2 kg** of **W.R** with **50 kg** of cement and **150 kg** of sand, then add water (reduced by **10 – 15 %** than normal amount because **W.R** makes excellent workability) and mix well, (mechanically recommended) then use it as a plaster. [This would be a useful method in curing concrete cavities and cracks before being isolated with **Phara Proof**]

Safety and health instructions:

- **W.R** packets should be kept in a cool dry place away from direct sunlight.
- Avoid contact with the eye. If occurred, wash your eyes carefully with water and consult a doctor.
- Gloves should be worn to avoid skin irritation.

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