



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

Phara-Proof

Product description:

Phara-Proof is a cement-based isolating material that completely stops water penetration through concrete and mortar.

The idea behind **Phara-Proof** action is a chemical reaction between **Phara-Proof** and calcium carbonate found in cement to produce calcium silicate (i.e. crystal-like particles) that fills voids in concrete or mortar and perfectly prevents water seepage.

Phara-Proof penetrates into the body of the isolated structure to a depth of about 0.5 ~ 0.9 cm. it makes this thickness a 100% shield against water penetration

Scope of use:

Phara-Proof is an excellent choice for 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	Cement powder
Product Color	Gray
Standards	ASTM C- 494 TYPE -A
Over-Head Pressure	Up To 7 bars (+) or 3 bars (-) [in case of using W.R Product in Mortar]
Water/Phara-Proof ratio	50% - 60%
Time Gap between 2 coats	30-40 min [in summer] 60-75 min [in winter]
Coverage Rate	1 kg/1m ² /1Coat
Package	20 kg plastic sack
Shelf-life	1 year



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Advantages:

- **Phara-Proof** application on cement surfaces results in having a mortar or concrete surfaces that are perfectly 100% isolated against water and humidity
- **Phara-Proof** can easily resist enormous hydro static pressure up to 7 bars(+) and 3 bars (-)
- **Phara-Proof** Provides excellent cohesion on porous or non-porous surfaces
- **Phara-Proof** has high flexibility, adhesion and severity with the back surface
- **Phara-Proof** resists the friction caused by the movement of workers and light trucks
- **Phara-Proof** resists the impact of Carbon dioxide and chlorides ions effectively
- **Phara-Proof** is over – paintable
- **unlike** other traditional paints which need **7 – 28** days for curing **Phara-Proof** can be applied as a paint directly on concrete surfaces or mortar after 24 hours

Important notes:

- In summer and hot weather after painting the first or the second coat hair cracks might be noticed on the isolated surface. This dose not affect the isolation process provided that the above-mentioned procedures or application instructions are applied carefully
- **Phara-Proof** is all-in-one material and dose not need any more additives

Applications:

First: preparing surface

Before applying **Phara-Proof** on concrete or mortar, the surface should be cleaned to be free of (dust, sands, grease, oils, wood or metal slabs, or any painting materials). Surface also Should be splashed with water very well 5 minutes before the painting process to moisturize concrete or cement surfaces specially in summer and hot weather. This is very important to increase the efficiency of painting and Enhance **Phara-Proof** penetration into capillary pores of the cement surface.

Second: Painting

Add **12** liters of potable water to each **20 kg** of **Phara-Proof** and mix well in a clean container [mechanical mixing recommended]. then apply **2** perpendicular coats using suitable brush with a gap time of **30-40** minutes in summer and **60-75** minutes in winter. Then allow **24** hrs before using this isolated surface

Using Phara-Proof as a mortar:

To make mortar using **Phara-Proof**, mix **1** weight unit of **Phara-Proof** with **3** units of graded sand, then add water (reduced by 10 – 15 % than normal amount as **Phara-Proof** makes excellent workability) and mix well, then use it as a plaster. [This is a useful method in curing concrete cavities and cracks before being isolated]

Safety and health instructions:

- **Phara-Proof** sacks should be kept in a cool dry place away from direct sunlight.
- Avoid contact with the eye. If occurred, wash eyes carefully with water and consult a physician.
- Gloves should be worn to avoid skin irritation.

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