Power Bond

High-quality, multi-purpose emulsion for concrete & cement mortar.

Description: -

Power Bond is a modified styrene-butadiene rubber emulsion, highly effective in enhancing the properties of concrete and cement mortar, especially its adhesion to various building materials. It is multiuse additive which acts as a bonding agent between different surfaces.

Usage: -

- Widely used in both interior and exterior construction to enhance the efficiency and properties of concrete and cement mortar.
- Used for bonding mortar between old and new concrete to increase durability and hardness.
- Used as a protective coating to strengthen concrete and cement surfaces after diluting the product with water.
- Used to improve the properties of repair and restoration mortar and for leveling surfaces.
- Used to increase adhesion strength and improve workability to prevent cracking in thin-floored areas.
- Added to the mortar used for ceramic, tile, and artificial marble adhesion.

- Used in waterproofing due to its high resistance to water penetration and leakage.
- Enhances workability and increases the setting time of gypsum plaster.
- Bonds cement plaster mortar to smooth concrete and various cement surfaces.
- Applied in Gypsum plasters to increase cohesion.
- Increases resistance to mechanical stress such as abrasion and friction.
- Reduces shrinkage and increases chemical resistance.
- Does not cause rusting of reinforcement iron and is non-flammable.
- Used for fixing water and drainage connections and internal and external waterproofing.
- Applied to bond screed floors with small thicknesses above previously cast concrete floors.

Advantages: -

- High adhesion strength, improves the mechanical properties and workability of concrete and cement mortar.
- Increases the resistance of concrete and mortar to various mechanical stresses such as tension and bending.
- Enhances resistance to abrasion, friction, and chemicals.
- Fully compatible with all types of cement and is non-flammable.
- Does not cause rusting of reinforcement iron, is non-hazardous, and easy to use.
- Reduces shrinkage and improves chemical resistance.
- High cohesion and bonding strength for cement surfaces and concrete.
- Increases the elasticity and prevent cracks that may occur after drying.

- Reduce water permeability of concrete and cement mortar, preventing the formation of salts and chlorides.
- Highly effective in waterproofing, resisting leakage, and preventing water permeability.

Characteristics: At 25°

color	White liquid
Density kg/liter	1.01 ± 0.03
Hydrogen ion concentration [pH]	8 ± 1.5
Minimum temperature	5°c
Solid content ratio by weight A to B.	48 ± 3 %

Application instructions: -

General purposes: -

In various applications, the average mixing ratio with water is 3:1.

Uses as a slurry for bonding old concrete to new: -

The mixing ratio of Power Bond to water is 1:2, then cement is gradually added with continuous stirring until the slurry reaches the desired consistency. The surface of the existing concrete is coated with the slurry before pouring the new concrete directly.

uses as a plaster mortar: -

The ratio of Power Bond to water is 1:3. Then, a mixture of cement with sand [in a ratio of 1:3] is added, and thorough stirring is done until reaching the suitable consistency for plastering on the concrete surface.

Use as a mortar: -

The best ratio for the components of the mortar is as follows: -

Water	Power Bond	Cement	Graded sand
2 : 3 Liter	1 Kg	6 : 7 Kg	20 Kg

There is also a general ratio as follows:

Power Bond is mixed with water at a ratio of 1:5 or 1:6.

Water	Power Bond	Cement	Graded sand
5 : 6 Liter	1 Kg	1 Kg	By size

The use in flooring up to a thickness of 10 mm: -

The ratios are as follows:

Water	Power Bond	Cement	Graded sand
5 : 6 Liter	1 Kg	1 Kg	5 : 4

Safety precautions: -

- Gloves, protective clothing, and eye goggles should be worn during application.
- Follow health and environmental safety precautions.

Packages: -

Plastic jerrycan with capacities [1, 5, 20 kg].

Storage: -

The product should be stored for two years in tightly sealed containers and under appropriate storage conditions.

For more information or inquiries, Visit our website.

Power-cp.net

Disclaimer: The technical data provided herein is accurate and correct as of the publication date and is subject to change without prior notice. The information in this datasheet is not exhaustive. Application conditions should comply with those mentioned in this datasheet. The company is not responsible for any losses resulting from application under differing conditions.

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