

**Ghar ka nirmaan ho ya marammat,
Dono ko dijiye Perfect Water Proofing**



INTEGRAL WATERPROOFING
FOR CONCRETE AND CEMENT MORTARS WITH
HIGHER SOLID CONTENT AND ADDED PLASTICIZER
FOR GREATER PERFORMANCE

MP BIRLA CEMENT
PERFECT
PLUS
IWP

Product Description:

MP Birla Perfect Plus IWP is a lignosulphonate based dark brown liquid which readily dissolves in water and gets evenly dispersed. It not only imparts a water-proofing quality to the concrete / mortar, but also enhances its quality by reducing the requirement of water, and minimising segregation and bleeding. It is more efficient compared to traditional waterproofing agents.

Multi-Action Mechanism:

- MP Birla Perfect Plus IWP is a special blend of plasticizer and a highly effective water repellent material
- IWP reduces the requirement of water in cement concrete mix, producing a uniform mix with a high workability and increased cohesiveness. It also ensures low porosity, and prevents the formation of voids / pores / water channels, reducing permeability of cured cement concrete
- IWP changes the cellular structure of cement concrete with reduced pores / voids / channels, making the mix uniform, workable and homogeneous
- MP Birla Perfect Plus IWP increases resistance to water penetration by virtue of its high plasticizing factor, and reduces W/C ratio. It prevents the formation of insoluble particles which coat and block pores and capillaries

Areas of Application

Highly recommended for waterproofing of all RCC and cement mortar works like:



Unique Features, Advantages & Benefits of Perfect Plus IWP:

**Liquid Admixture:**

Instant, perfect and easy dispersion throughout the concrete / cement mortar mix, which adds to uniform waterproofing throughout concrete and cement mortar matrix

**Improved Workability:**

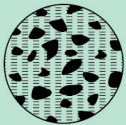
Remarkable improvement in the flow and workability of concrete / cement mortar for easier and faster placing without any loss of strength. It saves application time and increases pot life

**Lower W/C Ratio:**

Reduction of up to 10% in water content without loss of workability

**Improved Quality:**

More dense, cohesive concrete with reduced permeability and improved surface finish

**Reduced Bleeding & Segregation:**

Bleeding and segregation reduced to almost nil, eliminating the problem of honey combing, rock pockets and weak patches

**Reduced Drying Shrinkage:**

Much less drying shrinkage because of lower heat of hydration

**Corrosion Resistance :**

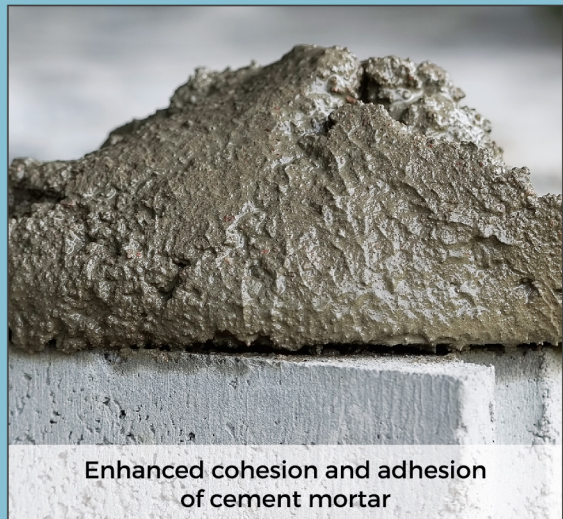
Makes concrete more cohesive, hence greater protection of steel reinforcement from rust and corrosion

**Improved Durability:**

Significant increase in the life and durability of cement concrete structures



Uniform concrete mix with high workability and increased cohesiveness



Enhanced cohesion and adhesion of cement mortar

Mix Proportion:

The recommended dosage of concentrated Perfect Plus IWP is 200 ml per bag of 50 kg cement.

Important Precautions:

The following precautions are necessary at the construction stage for avoiding frequent costly repairs and recurring problems:

- Use the optimum quantity of water required for making workable cement concrete mix. Use of excess water results in bleeding, segregation and formation of water channels
- As far as possible, aggregates should be well graded, and the sand should have adequate quantity of fine particles

Standard specification: IS : 2645 : 2003

Shelf Life: 12 months from the date of manufacturing

Packing: 1 Litre, 5 Litre, 10 Litre and 20 Litre,



TECHNICAL SPECIFICATION (Meet the requirement of IS 2645-2003)

Sl.No	Properties	Unit	Test Method	Results
1	Appearance	-	Visual	Dark Brown Colour Liquid
2	Chloride Content	%	CC/TM/07	0.005
3	Dry material content @ 120°C /2 Hrs by mass	%	CC/TM/02	13.5
4	Relative Density @ 25°C	gm/cc	ASTM D-1298	1.05 ± 0.05
5	pH	-	CC/TM/03	≥ 7.5

Health & Safety Precautions:

- Use rubber hand gloves & safety goggles while using Perfect Plus IWP. In case of contact with skin, wash with plenty of water
- Keep out of the reach of children
- Splashes of Perfect Plus IWP, in contact with the skin, should be washed with water for easy removal. If it comes in contact with eyes, wash with plenty of water. If irritation persists, seek medical help

Environment & Safety:

- Perfect Plus IWP is non-toxic and non-flammable, making it environment friendly



Customer Support & Services Cell

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