



Since 2009

Enviro PowerMix WP 400



SHIELDING YOUR STRUCTURES

Technical Data Sheet

It's Our Business to Protect Your Structure.

Advantages & Benefits

- Liquid
- Low dosage required
- Water-reducing
- Pump ability
- Improved surface finish.
- Improved compressive strengths
- Waterproofing admixture – Resistance to water penetration
- Increased durability

Color:

- Brown

Packaging:

Liquid Component – 20 Ltr

Liquid Component – 10 Ltr

Liquid Component – 5 Ltr

Shelf Life:

24 months after manufacture

Storage:

Store under cover, in dry and cool place with temperature not exceeding +35°C. Protect from freezing.

Application Temperature:

5 °C – 40 °C

Certifications:

- IS:2645-2003
- IS:9103-1999
- ASTM C494: Types A

Description:

Enviro PowerMix WP 400 is liquid admixture, allows superior workability in concrete with reduced water, and also achieves high resistance to water ingress. It is based on specially formulated polymers and compatible with all types of cement and binders (like fly ash, ground granulated slag, silica fume, metakaolin, etc.)

Recommended Uses:

- Suitable for all types of concrete and mortar
- Applicable in residential, commercial, and infrastructure projects
- Ideal for sea walls, tunnels, and basements
- Recommended for structural and water-retaining structures
- Effective for plaster mortar and top slab applications

Performance Test Data :

Aspect	Brown Liquid
Specific Gravity	1.065 ± 0.02 at 25°C
pH	≥6
Chloride ion Content	<0.2%
Surface Absorption of Water, BS 1881 – Part 122	40% Lower than Control

To produce waterproof concrete following to be remember:

Make sure water-cement ratio is in the range of 0.40 to 0.60.

Keep water content as below as possible.

Place concrete as early as possible and make sure it's compacted. Over dose effects:

- Increase in air entrainment.
- Loss of workability.
- Increase plastic shrinkage.
- Extension can be occurred in initial and final setting.



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Application:

Enviro PowerMix WP 400 is a ready-to-use liquid which is poured into the concrete together with the mixing water. Enviro PowerMix WP 400 added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of Enviro PowerMix WP 400 to dry aggregate or cement is not recommended.

Suggested Specification:

Enviro PowerMix WP 400 is polymer base, waterproofing and plasticizing admixture. The product shall comply with IS:9103 and IS:26452003 when tested at a dosage of 200mg - 250mg per 50kg bag of cement. The product must be free of chloride and shall comply with ASTM C494 type A&D.

Capability:

Enviro PowerMix WP 400 is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, corrosion inhibitors and shrinkage reducer. It is also compatible with slag and pozzolans such as fly ash and silica fume.

Workability:

Enviro PowerMix WP 400 ensures that concrete remains workable in excess of 60 minutes at +25°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

Corrosivity:

Enviro PowerMix WP 400 admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete. Neither calcium chloride nor any chloride-based ingredients are used in the manufacture of Enviro PowerMix WP 400 admixture.

Precaution:

Care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.



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