

Product Description

TechnoCrete PQ is a new generation of concrete admixture based on a blend of a specially selected organic polymer, combining the super plasticizers with high range water reducing properties.

Standards

Conforms to ASTM C - 494 and ASTM C - 260

Uses

- TechnoCrete PQ should be used wherever a well compacted durable concrete, resistant to extreme thermal variation and frost action is required. Due to its cement saving property, the heat of hydration is reduced in mass concrete. Such situations include roads, runways, pavements, hardstands, dams, canal lining, open storage areas etc.
- TechnoCrete PQ is of great benefit in light weight concrete, where it improves workability and reduces tendency to bleed. It is useful in reducing the density of light weight concrete blocks, so that the blocks meet thermal insulation requirement. TechnoCretePQ gives increased durability to dense concrete and because of the entrained air, a reduction in material costs is achieved.
- Water reduction minimizes shrinkage or cracking thereby producing close textured impervious concrete with improved durability and surface finish.
- By keeping workability and strength constant, with PQ admixture definite cement economy ranging 10% to 12% can be obtained.
- By incorporating air into the concrete, much greater resistance to spalling, crazing in freeze-thaw environments and improvement in the properties of fresh concrete is achieved

Advantages

- Substantial improvements in workability and flow properties without increase in water, produce self leveling concrete which can be poured into place around congested reinforcement and requires little or no vibration to achieve optimum compaction. The bond strength of concrete to reinforcement steel is considerably increased.
- For a given concrete mix, keeping the cement content and workability constant by reduction in the amount of mixing water, increase in strength upto 15% can be achieved.

Properties

Form	Dark Brown Liquid
Chemical Basis	Ligno Sulfonate Formaldehyde
Specific Gravity	1.19 + or - 0.02 (at 27° C ± 3)
Chloride	Nil
Air Entrainment	Approx. 2 – 3%
Compatibility	Can be used with all types of Portland and slag cement and it is compatible with PFA (Fly Ash)

Dosage

If the dosage of TechnoCretePQ is reduced considerably for desired quantity of air, water reducing property will be affected. In such situation TechnoCrete N and TechnoCrete AEA should be used separately with definite dosage, to be determined by site trials.

Methods of use

TechnoCretePQ is supplied ready to use. For maximum dispersion throughout the mix, measured quantity of TechnoCretePQ should be added directly into the mixer at the same time as the mixing water, on no account it should be added to the dry cement.

Shelf Life

More than 12 months if stored in original packing under shed and at normal ambient temperature.

Packaging

Available in 250kgs carbouys

Important: Technokem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, Technokem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

For Complaints/Suggestions:

Please write to our Customer Care Executive at

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