Kalekim

Tecnica 922 WP

Technical Data Sheet

Waterproofing Concrete Admixture With Water Reducing/Plasticising Effect

Tecnica 922 WP

Description

Tecnica 922 WP is a modified lignosulfonate based concrete admixture that increases the water impermeability of the concrete against water absorption and provides liquidity plasticity to the fresh concrete.

Fields of Application

- To reduce the low-pressure or unpressurised water permeability of concrete.
- Swimming pool, water channels and tunnels.
- Concretes designed for wastewater treatment plants, dams, culverts and water reservoirs
- Concrete elements under the high risk of water absorption by capillary suction
- To reduce water ingress in tidal and splash zone of water structures.

Properties

- It increases impermeability against capillary water absorption compared to admixture-free concrete.
- Improves the durability of concrete.
- Improves the workability without increasing the water content.
- Reduces shrinkage.
- Does not contain chloride or any other substances that may cause corrosion.
- It provides easy settling and pumping of concrete.

Application

- Tecnica 922 WP should be added to the mixing water or directly added to fresh concrete during mixing. In case of the direct addition to the fresh mixture, additional mixing time should be applied. Tecnica 922 WP should not be added to the dry mixture.
- Tecnica 922 WP is generally compatible with the Portland cement types described in EN 197- 1 and ASTM C150. In addition, it can be used in concrete mixes containing mineral admixtures such as silica fume, fly ash and ground granulated blast furnace slag. However, the presence of mineral admixtures in the mixture is greatly influence the required dosage of the admixture for a specified target. The optimum dosage of Tecnica 922 WP should be determined on trial batches

Recommended Dosage

- Tecnica 922 WP is 0.5% of the cement weight used.
- It is recommended that the optimum dosage should be determined on trial batches in which the strength development and capillary suction are controlled.
- Overdose may result in excessive increase in setting time and air entrainment. In such a case, the concrete surface should be kept moist and protected from plastic shrinkage cracks as a result of evaporation.

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Post-Application Protection & Suggestions

- There is no known incompatibility with the other type of chemical admixtures. But, it is recommended to experiment test with different types of chemical additives.
- In case of a combined usage with superplasticizers, the superplasticizer dosage should be determined.
- Concrete should be protected from shrinkage and cracks by proper curing and maintenance.
- All tools and application equipment should be cleaned with plenty of water immediately after use.
- In case of contact with skin, wash with clean water. In case of contact with eye, wash with clean water. Eye contact should be medically consulted immediately.
- For further information refer to the safety data sheet

Storage

- Packages should be kept dry and cool at between +5°C and +35°C in moisture free conditions.
- Packages should be be protected from direct sunlight and freeze.
- Shelf life is maximum 12 months conditional to complying with the above mentioned conditions.

Packaging

- 30 kg drum
- 1000 kg IBC

Quality Certificates

CE

TS EN 934-2

Technical Properties

(at 23 °C and 50% RH)

General Data

Appearance/Colours	Brown liquid
Shelf Life	12 months when stored in original sealed packaging.
Structure	Liquid based on modified lignosulfonate
Mixture Density	1,05 – 1,09 (at +20 °C)
pH	6-10

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