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Product Data Sheet

Superplasticizer FM-4

high range water reducing/ flow improving admixture

Application

Admixture for production of precast concretes (self-compacted concretes, and high strength concretes).

Advantages

Increases concrete flowability at constant w/c ratio.
Reduces mix water requirements at constant consistency from 12-30%.
Improves waterproofing, with properly selected grading.
With the proper concrete mix design, it allows obtaining HPC and SCC concrete.

Chemical base

Polycarboxylates-ether.

Physical form

Light brown coloured liquid.

Density

1045 ± 20 [kg/m³]

Dosage

Dosage is dependant on required concrete mix design. Recommended dosage rates range from 0.5-2.5% of the weight of cement used in concrete mix.

Preparing concrete mix

Prior to using Superplasticizer FM-4, it is necessary to perform an adequate site test in the concrete mix design. Use of multiple admixtures requires practical testing of their compatibility or obtaining adequate information from the admixture manufacturer.

Add with water while preparing a concrete mix. Addition to the finished mix or redosage at the construction site just before placing are also permitted.

Adding the admixture to dry components is not allowed.

Concrete mix preparation should be monitored in a continuous manner so that all factors affecting concrete quality will be maintained (mix composition, ambient temperature, concrete mix temperature, mixing time and method).

Transport

Superplasticizer FM-4 is safe with respect to handling and storage, and does not fall into ADR limitations.

Covered means of transport are recommended.

Quality control

The admixture production is subject of strict quality control according to ISO 9001:2009.

Certificates and Approvals

Certificate ZKP - CE No 1488-CPD-0008
Hygienic Certificate PZH – HK / B /1543/01/2010

Storage

Store in roofed areas, in tightly closed PE or steel containers at temperatures from 5-40°C.

Relocate the product after extended period of storage.
Shelf life is 12 months.

Packaging

Plastic barrels: 120 kg
Containers: 1000 kg

Work Health and Safety conditions

Follow generally accepted Work Health and Safety rules.

Avoid contact with eyes, mucous membrane and skin.

Environmental

The product is practically harmless. As far as possible, stop the leak (e.g., by sealing a damaged container, placing in an emergency container). Contain the spread of liquid by embanking the spill area. Cover the spill liquid with absorbent material (e.g., earth, sand) and remove into waste containers, and dispose according to the applicable regulations. Flush the contaminated surface with water, allowing it to flow into the drainage system – the product is biodegradable.

Classification

Product is not classified as a dangerous

LEGAL NOTICE

Directions contained in this Product Data Sheet concerns the technical product only and may not be used after it has been processed.

The above information is based on current knowledge, and it describes the product in respect of health and environmental requirements and safety rules. However, it may not be interpreted as a guarantee of specific properties of the product.

The data contained in this Product Data Sheet as well as any spoken advice or information may not be a basis for manufacturer's unconditional liability unless confirmed in writing.