

Dynamon Easy 21

Acrylic-based super-plasticizer for ready-mixed concrete

DESCRIPTION OF THE PRODUCT

Dynamon Easy 21 is an acrylic-based admixture for ready-mixed concrete.

WHERE TO USE

Thanks to its high workability properties (consistency class S4 or S5 according to EN 206-1 Standards), concrete which is blended using **Dynamon Easy 21** is easy to lay when fresh, and has high performance characteristics when set.

Dynamon Easy 21 is particularly suitable for use in the ready-mixed concrete sector, and whenever the amount of water needs to be considerably reduced.

Dynamon Easy 21 is also capable of guaranteeing excellent workability of the concrete in various consistency classes, even in hot weather.

The use of **Dynamon Easy 21** is particularly advantageous, therefore, when concrete has to be poured in hot temperature, or whenever the concrete needs to be transported over long distances.

The main area of application of **Dynamon Easy 21** is in the production of ready-mixed concrete:

- with good mechanical characteristics and preservation of long workability time;
- ideal for use in waterproof, durable applications in the exposure classes in the EN 206-1 Standard.

TECHNICAL CHARACTERISTICS

Dynamon Easy 21 is a water solution with acrylic

polymers, which scatter the grains of cement and promote slow initial development of hydration of the cement.

HOW TO USE

Dynamon Easy 21 develops its maximum scattering action if it is added in the mix after all the other components (cement, aggregates, added minerals or filler material and at least 80% of the water required for blending).

COMPATIBILITY WITH OTHER PRODUCTS

Dynamon Easy 21 is compatible with other products used in the production of special concrete, and in particular with:

- hardening accelerating chloride-free admixtures from the **Mapefast** range for reaching very high mechanical strengths at early ages;
- air entraining agents from the **Mapeair AE** range used in the production of concrete resistant to freeze/thaw cycles;
- **Mapeplast SF** micro-silica-based powder, used in the production of concrete with "top quality" properties of mechanical strength, waterproofing and durability;
- **Expancrete** expansion agent, used in the production of controlled shrinkage concrete;
- limestone and fly-ash filler material;
- **DMA** and **Mapeform Eco** form-release agents, for releasing concrete from formworks;

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	liquid
Colour:	brown
Density according to ISO 758 (g/cm ³):	1.08 ± 0.02 at +20°C
Main action:	increase in workability and/or reduction of mixing water, preservation of workability
Classification according to EN 934-2:	set retarding, high range water reducing, super-plasticizer, tables 11.1 and 11.2
Classification according to ASTM C494:	type G
Classification according to ASTM C1017:	type II
Chlorides soluble in water according to EN 480-10 (%):	< 0.1 (absent according to EN 934-2)
Alkali content (Na ₂ O equivalent) according to EN 480-12 (%):	< 3.0
pH according to ISO 4316:	7.0 ± 1

- curing agents from the **Mapecure** range to protect concrete structures without form-work against quick evaporation of the mixing water (floors).

CONSUMPTION

Dosage in volume:

from 0.5 to 2.0 l per 100 kg of cement. Different dosages from those suggested must be previously tested through concrete trials, in addition to consulting MAPEI Technical Services Department.

PACKAGING

Dynamon Easy 21 may be supplied in bulk, in 200 l drums and in 1000 l tanks.

STORAGE

Dynamon Easy 21 may be stored 12 months in sealed containers and protect from frost. While the product may change colour if exposed to direct sunlight, its performance properties will remain unchanged.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Dynamon Easy 21 is not considered dangerous according to current norms and regulations regarding the classification of mixtures. However, we recommend the use of protective gloves and goggles, and to take the usual precautions for handling chemicals products.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

All relevant references for the product are available upon request and from www.mapei.com



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