

MAPEFLUID N200

Superplasticizing admixture for concrete



DESCRIPTION

Mapefluid N200 is a liquid superplasticizing admixture for quality concrete (watertight, durable, high-strength).

WHERE TO USE

Because of the high workability (consistency class S4 and S5 according to EN 206-1) obtained without excess water in the mix, concrete with **Mapefluid N200** admixture is easy to place in the plastic stage and has high-performance characteristics when hardened.

Mapefluid N200 is suitable for all applications which require high workability and a low water/cement ratio.

The main application areas for **Mapefluid N200** are:

- ready-mixed concrete (especially in cold weather);
- pumped concrete;
- mass concrete.

Some application examples

In addition to its plasticising effect, **Mapefluid N200** has a slight retarding action on the hydration of cement and is therefore particularly suitable for:

- ready-mixed concrete for watertight structures: purification plants, reservoirs, canals, tunnels, etc;
- ready-mixed concrete for structures in reinforced and pre-stressed reinforced concrete exposed to aggressive agents: beams, columns, bridge-decks, viaducts;
- ready-mixed quality concrete for structures with R_{ck} higher than 25 MPa.

TECHNICAL CHARACTERISTICS

Mapefluid N200 is a water solution of active polymers that disperse cement granules.

The admixture's special action can be adjusted to obtain the results required (increased strength, improved workability, reduced cement factor) by varying the dosage between 0.5% and 1.5% by weight of cement: the greater the dosage, the greater the effect.

RECOMMENDATIONS

Although there are no specific uses for which **Mapefluid N200** is unsuitable, the following are effective alternatives:

- for preparation of ready-mixed concrete in hot weather, use **Mapefluid R104**, **Dynamon** or **Chronos**, for better initial retention of workability in the mix.

APPLICATION PROCEDURE

It is preferable to add **Mapefluid N200** into the mixer after all the other ingredients (water, cement, aggregates). The action of the admixture is more effective when added later.

COMPATIBILITY WITH OTHER PRODUCTS

Mapefluid N200 is compatible with other products for producing special concrete, and especially with:

- hardening accelerating chlorides-free admixtures from the **Mapefast** range for reaching very high mechanical strengths at early ages, also in cold climates;
- air-entraining agents from **Mapeair AE** range for producing concrete resistant to freeze-thaw cycles;
- **Mapeplast SF**, micro-silica powder admixture for producing top-quality concrete with strength, durability and impermeability;
- **Expancrete**, expansive agent for producing shrinkage-compensated concrete;
- fly ash for producing concrete with artificial pozzolan;
- form-release agents from **Mapeform Eco** and **DMA** ranges for stripping concrete formwork;
- curing compounds from **Mapecure** range for preventing overly rapid evaporation of mix water.

DOSAGE

Dosage by volume:

from 0.5 to 1.5 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

Mapefluid N200 is available in 200 l drums, 25 kg and 10 kg buckets and 1,000 l tanks.

It is also available in bulk on request.

STORAGE

Mapefluid N200 can be stored for 12 months in closed containers; protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefluid N200 is not considered as dangerous according to the current regulation regarding the classification of mixtures. We recommend the use of protective gloves and goggles and to take the usual precautions for handling chemical 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.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	liquid
Colour:	brown
Density according to ISO 758 (g/cm ³):	1.20 ± 0.03 at +20°C
Main action:	water reduction and/or improved workability
Collateral action:	initial retarding of hydration when used in high dosages
Classification according to EN 934-2:	high range, water reducing, superplasticizer, tables 3.1 and 3.2
Classification according to ASTM C494:	type F
Classification according to ASTM C1017:	type I

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 (%):	< 6.0

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

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