**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_{50} 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.
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.

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**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.

**TECHNICAL DATA (typical values)**

<table>
<thead>
<tr>
<th>PRODUCT IDENTITY</th>
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<tbody>
<tr>
<td>Consistency:</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour:</td>
<td>brown</td>
</tr>
<tr>
<td>Density according to ISO 756 (g/cm³):</td>
<td>1.20 ± 0.03 at +20°C</td>
</tr>
<tr>
<td>Main action:</td>
<td>water reduction and/or improved workability</td>
</tr>
<tr>
<td>Collateral action:</td>
<td>initial retarding of hydration when used in high dosages</td>
</tr>
<tr>
<td>Classification according to EN 934-2:</td>
<td>high range, water reducing, superplasticizer, tables 3.1 and 3.2</td>
</tr>
<tr>
<td>Classification according to ASTM C494:</td>
<td>type F</td>
</tr>
<tr>
<td>Classification according to ASTM C1017:</td>
<td>type I</td>
</tr>
<tr>
<td>Chlorides soluble in water according to EN 480-10 (%):</td>
<td>&lt; 0.1 (absent according to EN 934-2)</td>
</tr>
<tr>
<td>Alkali content (Na₂O equivalent) according to EN 480-12 (%):</td>
<td>&lt; 6.0</td>
</tr>
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</table>
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.

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