DESCRIPTION OF PRODUCT
Dynamon Easy 31 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 31 is easy to lay when fresh, and has high performance characteristics when set.

Dynamon Easy 31 is particularly suitable for use in the ready-mixed concrete sector, and whenever the amount of water needs to be considerably reduced.

Dynamon Easy 31 is also capable of guaranteeing excellent workability of the concrete in various consistency classes, even in hot weather.

The use of Dynamon Easy 31 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 31 is in the production of ready-mixed concrete:
- with good mechanical characteristics and extremely long preservation of workability times in hot climates;
- ideal for use in waterproof, durable applications in the exposure classes in the EN 206-1 Standard.

TECHNICAL CHARACTERISTICS
Dynamon Easy 31 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 31 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 31 is compatible with other products used in the production of special concrete, and in particular with:
- air entraining admixtures 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)**

<table>
<thead>
<tr>
<th>PRODUCT IDENTITY</th>
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<tbody>
<tr>
<td><strong>Consistency:</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour:</strong></td>
<td>brown</td>
</tr>
<tr>
<td><strong>Density according to ISO 758 (g/cm³):</strong></td>
<td>1.09 ± 0.02 at +20°C</td>
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<tr>
<td><strong>Main action:</strong></td>
<td>increase in workability and/or reduction of mixing water, preservation of workability in hot climates</td>
</tr>
<tr>
<td><strong>Classification according to EN 934-2:</strong></td>
<td>set retarding, high range water reducing, super-plasticizer, tables 11.1 and 11.2</td>
</tr>
<tr>
<td><strong>Classification according to ASTM C494:</strong></td>
<td>type G</td>
</tr>
<tr>
<td><strong>Classification according to ASTM C1017:</strong></td>
<td>type II</td>
</tr>
<tr>
<td><strong>Chlorides soluble in water according to EN 480-10 (%):</strong></td>
<td>&lt; 0.1 (absent according to EN 934-2)</td>
</tr>
<tr>
<td><strong>Alkali content (Na₂O equivalent) according to EN 480-12 (%):</strong></td>
<td>&lt; 3.5</td>
</tr>
<tr>
<td><strong>pH according to ISO 4316:</strong></td>
<td>7.0 ± 1.0</td>
</tr>
</tbody>
</table>

- curing compounds from the Mapecure range for protection against rapid evaporation of the water used for blending the mix in concrete structures without form boxes (e.g. 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 31 may be supplied in bulk, in 200 l drums and in 1000 l tanks.

**STORAGE**

Dynamon Easy 31 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 31 is not considered dangerous according to the European regulation regarding the classification of mixtures. It is recommended to wear gloves and goggles and to take the usual precautions taken for the handling of chemicals.

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**