Hyperplasticising admixture based on a new generation of polycarboxylate ether for high performance concrete mixes with very low water cement ratios, high early compressive strengths, long slump retention and self consolidating & self compacting concrete

DESCRIPTION
Dynamon SP5600 is a chloride-free hyperplasticising concrete admixture based on the latest generation of polycarboxylate ether molecules.
It complies with ASTM C494 as Type F and G and EN 934-2 as Table 11.1-11.2.

ADVANTAGES
Dynamon SP5600 is specifically designed for the production of high performance and self compacting concrete mixes by significantly reducing water:cement ratio and provides excellent results in flowability and improvement in both fresh and hardened concrete properties. In particular enables high early and ultimate compressive strengths to be achieved.
Dynamon SP5600 is recommended for use with GGBS and tri-blend mixes.

USES
• High performance concrete where exceptional workability and durability is required.
• Self compacting concrete, particularly suitable for heavily congested reinforced sections.
• Precast concrete elements where increased early and ultimate strengths are required.
• Precast and in-situ concrete requiring an exceptionally high level of finishing.
• Concretes requiring reduced carbon footprint either through lower cement & water contents, and ultimately lower energy input during mixing, pumping and placing.
• Fly ash, Silica Fume, GGBS and tri-blend concrete mixes.
• Mass concrete pours with improved cohesion.
• Piling mixes.
• Raft foundations.
• Pouring in hot climates.

DOSAGE
The optimum dosage of Dynamon SP5600 to meet specific job site requirements should be determined by site trials using the selected cement, cement replacement materials (mineral additions) and aggregates.
Typical dosage 0.5-1.5 l/100 kg of total cementitious content. High performance concrete: 0.8-2.0 l/100 kg of total cementitious. Other dosage rates may be considered subject to trials.

EFFECT OF OVERDOSING
An overdosing of Dynamon SP5600 will not adversely affect concrete setting times. For any clarifications please contact your local Mapei technical representative.

DISPENSING
Dynamon SP5600 is a ready to use liquid which should be added to the concrete mix using a recommended dispenser. To maximize the effect of the admixture we suggest the admixture is added subsequent to adding 50-70% of the mixing water.
All admixtures are to be added to the concrete mix using a calibrated automatic dispenser. Where multiple admixtures are used in the same mix, they must be added separately to the mix.

PACKAGING
Dynamon SP5600 is normally supplied in bulk, however, on request, it can also be provided in 200 litre drums and 1000 litre totes.

STORAGE
Dynamon SP5600 can be stored for 12 months in sealed containers. Protect from frost and direct sunlight.
MAPEI offers on-site technical assistance upon request. Please consult your local MAPEI technical support team.

MAPEI offers a complete range of high performance specialty admixtures & ancillaries for tunneling, concrete repair & finishing mortars, adhesives and waterproofing products.

**COMPATIBILITY WITH OTHER MAPEI PRODUCTS**

Dynamon SP5600 is compatible with other Mapei products for preparing special concretes, particularly with:

- Mapeplast RP100, retarding plasticizer.
- Viscostar 3K, viscosity modifying agent for self compacting concrete.
- Mapeplast SF, Silica Fume powder for reinforcement protection from corrosion and high durability concretes in all aggressive and marine environment.
- Expancrete, expansive agent for producing shrinkage compensating concretes.
- Mapetard 2000, retarding admixtures for producing very long slump retention in very hot climates.
- Consult MAPEI local technical advisor for further advice and recommendations.

**SPILLAGE AND DISPOSAL**

Spillage of Dynamon SP5600 should be absorbed using sand or earth and transferred to suitable containers. Disposal of waste material should be carried out in full accordance with prevalent legislation and local waste authority guidelines. Refer to the product Material Safety Data Sheet for further information.

**SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

Dynamon SP5600 is not considered as a hazardous according to the current regulation regarding the classification of mixtures. It is however recommended to use gloves, eye protection and to take the usual precaution for the handling of chemical products. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

**IMPORTANT NOTES**

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

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

**TECHNICAL DATA**

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<thead>
<tr>
<th>PRODUCT IDENTITY</th>
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<tbody>
<tr>
<td>Consistency:</td>
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<tr>
<td>Colour:</td>
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<tr>
<td>Density (ISO 758) (g/cm³):</td>
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<tr>
<td>Classification according to EN 934-2:</td>
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<tr>
<td>Classification according to ASTM C494:</td>
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<td>Chlorides (EN 934-2):</td>
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<td>pH (ISO 4316):</td>
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