Mapefluid N400 is a chloride free superplasticizing admixture based on synthetic polymers to produce high quality durable concrete. Mapefluid N400 conforms to ASTM C494 as Type G and F and to EN 934-2. The product also complies with the specifications requested by EN 206 standard.

Advantages
Mapefluid N400 considerably improves fresh and hardened concrete properties maintaining long slump retention particularly in hot climatic conditions:
• Provides excellent accelerated strength gain at early age.
• Improves ultimate compressive strengths and enhances durability at all ages.
• Chloride free property makes it suitable for use in pre-stressed, post tensioned and reinforced concrete.
• Particularly suitable for precast concrete industry, where high early strength is required.
• Improves cohesiveness and pumppability whilst minimising segregation and bleed.
• Extends vibration time and minimises the possibility of cold joints in rafts and mass concrete pours.
• Optimises cement content and water addition whilst maintaining the compressive strength and workability thereby contributing to reduced carbon footprint of the concrete mix.
• Chloride-free.
• Long distance transportation.
• Extended workability particularly for hot weather concreting.
• Improves concrete surface finishing.

Uses
• Suitable for precast industry.
• Ready mix concrete where extended workability retention is required.
• Pouring in hot climates.
• Fly ash, silica fume and GGBS blended concretes either as a standalone admixture or in combination with other products from the MAPEI range such as Mapeplast admixtures.
• Mass concrete pours with improved cohesion.
• Piling mixes.
• Raft foundations.

Dosage
The optimum dosage of Mapefluid N400 to meet specific job site requirements should be determined by site trials using the selected cement, cement replacement materials (mineral additions) and aggregates. The normal dosage rate is 0.5-1.2 liters/100 kg of total cementitious materials. Dosages outside this range can be considered subject to trials. For high performance concrete a dosage between 1.0 and 2.0 liters/100 kg of total cementitious materials may be considered subject to trials.

Effect of overdosing
An overdose of Mapefluid N400 will result in an increase in retardation. In case of overdosage, good concrete practices such as curing and delay of de-shuttering must be followed. The ultimate strength of concrete will not be adversely affected by over retardation and will generally be increased. The retardation effect of an overdose will be more pronounced with SRC mixes. Consult your MAPEI local technical advisor for further advice and recommendations.

Dispensing
Mapefluid N400 is a ready to use liquid which should
Spillage and Disposal
Spillage of Mapefluid N400 should be absorbed onto 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
Mapeplast N400 is not considered as dangerous according to the current regulation regarding the classification of mixtures. It is however recommended to use gloves, eye protection and to take the usual precautions when 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.

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