DYNAMON SR1200

Supeplasticiser admixture based on polymer-modified polycarboxylate ether for high-performance concrete mixes with very low water/cement ratios, high compressive strengths and long slump retention in hot climates

ASTM C494 EN 934-2

DESCRIPTION

Dynamon SR1200 is a chloride-free superplasticiser admixture formulated from technologically advanced molecular chains of polymer-modified polycarboxylate ether. **Dynamon SR1200** complies with ASTM C494 as Type G and EN 934-2 as Table 11.1-11.2.

ADVANTAGES

Dynamon SR1200 is specifically designed for the production of high performance concrete mixes by significantly reducing water/cement ratio and providing excellent results in extended workability time, particularly in hot climates. In particular it will enable high early and ultimate compressive strengths to be achieved. **Dynamon SR1200** is also 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 reinforced and congested 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 SR1200** to meet specific job site requirement should be determined by site trials using the selected cement, cement replacement materials (mineral additions) and aggregates. Typical dosage rates range from 0.5-2.0 liters/100 kg of total cementitious material. Other dosage rates may be considered subject to trials.

MAPEI

EFFECT OF OVERDOSING

An overdose of **Dynamon SR1200** will not adversely affect concrete setting times. For any clarifications please contact your local MAPEI technical representative.

DISPENSING

Dynamon SR1200 is a liquid ready to use 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 SR1200 is available in 200 litres drums, 1000 litres IBC containers and in bulk upon request.

STORAGE

Dynamon SR1200 can be stored for 12 months in sealed containers. Protect from frost and direct sunlight.

COMPATIBILITY WITH OTHER MAPEI PRODUCTS

Dynamon SR1200 is compatible with other MAPEI products for preparing special concretes, particularly with:

- **Mapeplast RP200**, retarding plasticiser.
- **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 admixture 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 SR1200** 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 Safety Data Sheet for further information.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instruction on the safe use of our products can be found on the latest version of the Safety Data Sheet available on our website www.mapei.ae.

TECHNICAL DATA (typical values)

PRODUCT IDENTIFICATION	
Consistency:	liquid
Colour:	amber
Density (g/cm^3):	1.05±0.02 at +25°C
Classification according to EN 934-2:	set retarding/high range water reducing superplasticising admixtures, table 11.1-11.2
Classification according to ASTM C494:	Type G

Chlorides according to EN 934-2:	Nil
pH (ISO 4316):	5.0±1.5

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.ae.

All relevant references for the product are available upon request and from www.mapei.com.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.ae.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.com.

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