DYNAMON MR3000

Concrete superplasticiser based on modified acrylic polymer; developed specifically for ready-mix concrete industries; where the highest levels of concrete quality and performance are required

ASTM C494 EN 934-2

DESCRIPTION

Dynamon MR3000 is a chloride-free hyperplasticising admixture formulated from technologically advanced molecular chains of polymer-modified polycarboxylate ether.
Dynamon MR3000 conforms to ASTM C494 as Type G and to EN 934-2.

ADVANTAGES

Dynamon MR3000 is specifically designed for the production of high-quality, high-performance concrete mixes by significantly reducing water/cement ratio and providing excellent results in mix fluidity and improvement in both fresh and hardened concrete properties. In particular, it will enable high early and ultimate compressive strengths to be achieved. **Dynamon MR3000** is recommended for use with GGBS and tri-blend mixes.

USES

- High-performance concrete where exceptional workability and durability is required
- 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 and/or water contents, and ultimately lower energy input during mixing, pumping and placing
- Mixes containing fly ash, silica fume, GGBS and tri-blends
- Mass concrete pours with improved cohesion
- Piling mixes
- Raft foundations
- Pouring in hot climates

DOSAGE

The normal recommended dosage rate of **Dynamon MR3000** is 0.5 to 2.5 litre per 100kg of total cementitious material. Other dosages may be considered according to the site conditions and mix constituent properties. For more clarifications please consult your local MAPEI technical representative.

Effect of overdosing

An overdose of **Dynamon MR3000** will not adversely affect concrete setting times. For any clarifications please contact your local MAPEI technical representative.

MAPEI

DISPENSING

Dynamon MR3000 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 MR3000 is available in 200 L drums, 1000 L IBCs and in bulk on request.

STORAGE

Dynamon MR3000 can be stored for 12 months in sealed containers. Protect from frost and direct sunlight.

COMPATIBILITY WITH OTHER MAPEI PRODUCTS

Dynamon MR3000 is compatible with other MAPEI products for preparing special concretes, particularly with:

- **Mapeplast RP100**, 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 environments
- **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 MR3000** 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:	brown
Density (g/cm^3):	1.07±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
Alkali content (EN 480-12) (%):	< 2.0
pH (ISO 4316):	4.5±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.

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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