# DYNAMON MR2100

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

ASTM C494 EN 934-2

## DESCRIPTION

**Dynamon MR2100** is a chloride-free hyperplasticising admixture formulated from technologically advanced molecular chains of polymer modified polycarboxylate ether. **Dynamon MR2100** conforms to ASTM C494 as Type G and to EN 934-2 as table 11.1-11.2, depending on the dosage.

## ADVANTAGES

**Dynamon MR2100** 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 MR2100** 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 MR2100** is 0.8 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 MR2100** will not adversely affect concrete setting times. For any clarifications please contact your local MAPEI technical representative.

## DISPENSING

**Dynamon MR2100** 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.

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## PACKAGING

**Dynamon MR2100** is available in 200 litres drums, 1000 litres IBC and in bulk on request.

## STORAGE

**Dynamon MR2100** can be stored for 12 months in sealed containers. Protect from frost and direct sunlight.

## COMPATIBILITY WITH OTHER MAPEI PRODUCTS

**Dynamon MR2100 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
· **Expancrete**, expansive agent for producing shrinkage compensating concretes
· **Mapetard RCC ME**, retarding admixtures for producing very long slump retention in very hot climates
Consult MAPEI's local technical advisor for further advice and recommendations.

## SPILLAGE AND DISPOSAL

Spillage of **Dynamon MR2100** 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

**Dynamon MR2100** is irritant for the skin and eyes. During use, wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.

For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.

| TECHNICAL DATA (typical values) | |
|---|---|
| PRODUCT IDENTITY | |
| **Consistency:** | liquid |
| **Colour:** | amber |
| **Density (ISO 758) (g/cm3):** | 1.09±0.02 at +25°C |
| **Classification according to EN 934-2:** | set retarding/high range water reducing superplasticizing admixtures, table 11.1-11.2 |
| **Classification according to ASTM C494:** | type G |
| **Chlorides according to EN 934-2:** | nil |
| **pH (ISO 4316):** | 6.0 ± 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.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.com.

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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