

Dynamon Floor 2

Superplasticizer based on acrylic polymers for concrete floors, in warm climates

DESCRIPTION

Dynamon Floor 2 is a superplasticizing admixture based on acrylic polymers especially formulated for making high quality concrete floors in warm climatic conditions.

Dynamon Floor 2 is free of chlorides, is in compliance with the European Standard EN 934-2 with the ASTM C494 standards and is compatible with all types of cement provided by the European Standard.

WHERE TO USE

Floor concretes manufactured with **Dynamon Floor 2** have a high workability (consistency classes S4 or S5 according to EN 206-1), and are consequently easy to apply when fresh. At the same time they have excellent mechanical performance when hardened.

Dynamon Floor 2 is an admixture with superior performance in comparison with traditional naphthalene-sulphonate or melamine-sulphonate based superplasticizers and first generation acrylic admixtures in terms of increased water reduction and extended slump retention.

Dynamon Floor 2 can guarantee a high fluidity, long maintenance of workability and at the same

time produce an important development in concrete setting times and hardening.

The main applications of **Dynamon Floor 2** are:

- ready-mixed concrete for floors in warm climates;
- ready-mixed concrete for floors with high mechanical performance;
- ready-mixed concrete for durable floors according to the exposure class in the EN 206-1 Standard;
- ready-mixed concrete for floors with characteristic strength class R_{ck} 25-50 N/mm².

TECHNICAL CHARACTERISTICS

Dynamon Floor 2 is a water-based solution containing active polymers free of formaldehyde. These polymers efficiently disperse cement granules and facilitate a rapid development of the first products deriving from the cement hydration.

The dispersing action of **Dynamon Floor 2** can be used to great advantage in three ways:

- a) to reduce water compared with concrete with no admixture at the same workability;

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

| | |
|--|---|
| Consistency: | liquid |
| Colour: | amber |
| Density according to ISO 758 (g/cm³): | 1.11 ± 0.03 at +20°C |
| Main action: | increased workability and/or reduction of mixing water, reduction of setting time |
| Classification according to EN 934-2: | high range water reducing, superplasticizer, tables 3.1 and 3.2 |
| Classification according to ASTM C494: | type F and type C |
| Chlorides soluble in water according to EN 480-10 (%): | < 0.1 (absent according to EN 934-2) |
| Alkali content (Na₂O equivalent) according to EN 480-12 (%): | < 2.5 |

b) to increase workability at the same water-cement ratio;

c) to reduce both water and cement at the same water-cement ratio and the same workability.

APPLICATION PROCEDURE

Dynamon Floor 2 develops maximum dispersing action when added after the other mix components (cement, aggregates, minerals or fillers and at least 80% of mixing water).

COMPATIBILITY WITH OTHER PRODUCTS

Dynamon Floor 2 admixture is compatible with other products for preparing special concretes, especially with:

- **Mapeplast SF**, micro-silica powder admixture for producing top quality concrete with strength, durability and impermeability;
- **Mapecure SRA 25** shrinkage-reducing admixture and **Expancrete** expansive agent, used in the production of concrete using the **Mapecure System**;

- **Mapeplast PZ300** powdered admixture used in the production of concrete with artificial pozzolan and self-compacting concrete;

- different types of limestone fillers for manufacturing self-compacting concrete and any other type of concrete that requires these fillers;

- form-release compounds from the **Mapeform Eco** and **DMA** ranges used to strip form-work from concrete;

- curing agents from the **Mapecure** range to protect concrete structures without form-work against quick evaporation of the mixing water (floors).

To obtain a freeze/thaw resistant concrete, it is necessary to devise the best solution according to the type of expansive admixture and the type of cement to be used.

CONSUMPTION

Dosage by volume:

from 0.8 to 2 l per 100 kg of cement.

Different dosages from those suggested must be previously tested through concrete trials, in addition to consulting MAPEI Technical Services Department.

PACKAGING

Dynamon Floor 2 is available in bulk, 200 l drums, 1000 l tanks.

STORAGE

Dynamon Floor 2 may be stored for up to 12 months in sealed containers protected from frost.

Exposure to direct sunlight can provoke variations of the colour tone without altering in any way the performances of the product.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Dynamon Floor 2 is irritant for the eyes. During application it is recommended to use protective gloves and goggles and to take the usual precautions for handling chemical products. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For further and complete information about the safe use of our product please

refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

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

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