

Dynamon XTend W100 R

Acrylic super-plasticiser for concrete

DESCRIPTION

Dynamon XTend W100 R is a liquid admixture for high quality concrete, specially formulated to make concrete with a low water/cement ratio and a long maintenance of workability, including in warm climates and high temperatures.

WHERE TO USE

Thanks to its special, innovative formulation, **Dynamon XTend W100 R** is an efficient agent used to disperse cement particles, so that the amount of water required for mixing is considerably reduced. Compared with normal concrete without an admixture, **Dynamon XTend W100 R** may be used to design concrete mixes with a long workability time, and negligible loss in workability while being transported and unloaded on site.

Dynamon XTend W100 R is particularly suitable for the following:

- the production of high quality, ready-mixed concrete which complies with the prescriptions contained in the EN 206-1 Standards;
- the production of concrete with a consistency class of S4-S5 and SCC (Self Compacting Concrete).

TECHNICAL CHARACTERISTICS

Dynamon XTend W100 R is a watery solution with modified acrylic polymers. The use of **Dynamon XTend W100 R** must be contemplated when designing the mix, to use the plasticising capacity of the admixture to produce technically and economically high-performance concrete.

The use of **Dynamon XTend W100 R** is particularly advantageous for all strength classes of concrete.

COMPATIBILITY WITH OTHER PRODUCTS

Dynamon XTend W100 R is compatible with other admixtures used to produce high quality concrete, especially the following:

- products of the **Mapefast** line, hardening accelerating admixtures for reaching very high mechanical strengths at early age, including cold climates;
- products of the **Mapeair** line, aerating agents, to produce concrete which is resistant to freeze/thaw cycles;
- **Mapeplast SF** and **Mapeplast PZ300** micronised, pozzolan-based powdered admixtures used in the production of top quality concrete.
- **Expancrete** and **Mapecure SRA 25** expansive and shrinkage-reduction admixture, to produce compensated-shrinkage concrete or with no shrinkage;
- products of the **DMA** and of the **Mapeform Eco** lines Form-Release Agents, for releasing concrete from formworks;
- products of the **Mapecure** line, curing emulsions to protect form-released concrete structures from rapid water evaporation.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	liquid
Colour:	amber
Density according to ISO 758 (g/cm ³):	1.05 ± 0.02 at +20°C
Specific action:	to increase the workability and/or reduce the amount of mixing water required, and to maintain workability for long periods in hot climates
Classification according to EN 934-2:	high-efficiency, super-plasticising water-reducer and setting retardant, according to tables 11.1 and 11.2
Classification according to ASTM C494:	type G
Water-soluble chlorides according to EN 480-10 (%):	< 0.1 (absent according to EN 934-2)
Alkali content (equivalent Na ₂ O) according to EN 480-12 (%):	< 2.5
pH according to ISO 4316:	6.0 ± 1

CONSUMPTION

Dosage by volume:

from 0.5 to 1.5 l per 100 kg of cement.

PACKAGING

Supplied in bulk quantities, in 200 l drums and 1,000 l tanks.

STORAGE

Dynamon XTend W100 R may be stored for 12 months in sealed containers, protected from frost. If exposed to direct sunlight, the colour of the product may change, without causing any change to its performance characteristics.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Dynamon XTend W100 R is not considered dangerous according to the current regulation regarding the classification of mixtures. It is recommended to wear gloves and goggles and to take the usual precautions taken for the handling of chemicals. 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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