

# Dynamon SR41

## Superplasticiser based on modified acrylic for concrete with a low water/cement ratio and extremely long slump retention

### DESCRIPTION OF THE PRODUCT

**Dynamon SR41** is a modified acrylic-based admixture for ready-mixed concrete.

### WHERE TO USE

Concretes manufactured with **Dynamon SR41** have a high level of workability (consistency class S4 or S5, according to EN 206-1), and are consequently easy to apply when fresh. At the same time they offer excellent mechanical performance when hardened.

**Dynamon SR41** is particularly recommended for the ready-mixed concrete sector and whenever a considerable reduction in mixing water is required, coupled with excellent maintenance of initial workability of the concrete in various consistency classes, even when the surrounding temperature is high.

**Dynamon SR41** can guarantee quick development in mechanical strength after brief curing times.

Its performance makes it particularly suitable for mixing self-compacting concrete. In this case, along with **Dynamon SR41**, it is necessary to use **Viscofluid SCC/10** or **Viscostar 3K**, viscosity modifying admixtures, in order to avoid the risk of segregation and ensure mix homogeneity, even when spread over large areas.

The main areas of application for **Dynamon SR41** are in the production of ready-mixed concrete:

- high-strength concrete with extremely long maintenance of workability;
- concrete for waterproof, durable applications in exposure classes contained in the EN 206-1 norm;

- self-compacting concrete with long maintenance of workability.

### TECHNICAL CHARACTERISTICS

**Dynamon SR41** consists of a water solution containing acrylic polymers (without formaldehyde), capable of scattering the grains of cement and promoting slow development of initial cement hydration.

### HOW TO USE

**Dynamon SR41** develops maximum dispersing action when added after the other mix ingredients (cement, aggregates, added minerals or filler material and at least 80% of the mixing water) and before **Viscofluid SCC/10** or **Viscostar 3K**.

### COMPATIBILITY WITH OTHER PRODUCTS

**Dynamon SR41** is compatible with other products for preparing special concretes, especially with:

- **Viscofluid SCC/10** or **Viscostar 3K**, viscosity modifying admixtures for manufacturing self-compacting concretes;
- **Mapeplast SF**, silica fume based powder admixture for manufacturing "top-quality" concrete (strength, impermeability, durability);
- **Expancrete**, expansive agent for manufacturing shrinkage compensated concrete;
- different types of limestone fillers for manufacturing self-compacting concrete and any other type of concrete that requires these fillers;
- form-release agents from the **Mapeform Eco** and

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Consistency:	liquid
Colour:	brown
Density according to ISO 758 (g/cm <sup>3</sup> ):	1.09 ± 0.02 at +20°C
Main action:	increase in workability and/or reduction of mixing water; long conservation of workability
Classification according to EN 934-2:	set retarding; high range water reducer; super-plasticiser according to tables 11.1 and 11.2
Classification according to ASTM C494:	type G
Classification according to ASTM C1017:	type II
Chloride content according to EN 480-10 (%):	< 0.1 (absent according to EN 934-2)
Alkali content (Na <sub>2</sub> O equivalent) according to EN 480-12 (%):	< 2.0
pH content according to ISO 4316:	6.0 ± 1

DMA ranges used to strip formwork from concrete;

- **Mapecure** curing emulsions to protect form-released concrete structures from rapid water evaporation (floorings).

### CONSUMPTION

#### Dosage in volume:

from 0.7-1.5 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 SR41** is available in bulk, 200 l drums and 1000 l tanks.

### STORAGE

**Dynamon SR41** can be stored for 12 months in sealed containers, protect from frost. Exposure to direct sunlight can provoke variations of the colour tone without altering product performance in any way.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Dynamon SR41** is not considered dangerous according to the current regulations regarding the classification of mixtures. It is recommended to wear protective 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](http://www.mapei.com)

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



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