

# Dynamon RT Powder

## Powder admixture to restore concrete workability

### DESCRIPTION OF PRODUCT

**Dynamon RT Powder** is an admixture specifically developed to restore the workability of ready-mixed concrete.

**Dynamon RT Powder** is made from modified acrylic polymers with zero formaldehyde content.

### WHERE TO USE

Thanks to its high plasticising properties and ease of use, **Dynamon RT Powder** is added to concrete to restore its consistency when it has lost its specified consistency due to long transportation times or delays on site.

Its special characteristics make it particularly suitable for restoring the workability of concrete just before pouring. The product may also be added earlier when concrete is left for too long in the mixing drum.

### TECHNICAL CHARACTERISTICS

**Dynamon RT Powder** is a mixture of acrylic polymers and other powdered components with the capacity of efficiently dispersing cement particles throughout the mix. The super plasticising action of the product may be used to great advantage in the following cases:

- to increase the consistency class of concrete that, for transportation reasons, is too fluid to be carried;
- to restore the consistency of concrete that has lost its workability properties during transportation;
- to restore the original characteristics of concrete that has only been partially off-loaded;
- to prevent adding extra water to the concrete on site.

### HOW TO USE

The product is supplied in ready-to-use bags. We

recommend the following procedure for concrete that needs to be treated:

- make sure the consistency class of the concrete is S3 or less;
- add the water-soluble bag directly into the concrete through the loading chute;
- wait until the product is mixed evenly into the concrete;
- if it takes less time for the product to be mixed if the mixing drum is not fully loaded.

### COMPATIBILITY WITH OTHER PRODUCTS

**Dynamon RT Powder** admixture is compatible with all products from the MAPEI **Dynamon** range, but must not be mixed with them.

The admixture is compatible with any type of cement specified by EN 197-1 standards and may be used with any type of concrete with or without additives.

The performance characteristics of the product, however, may vary slightly depending on its compatibility with the components in the concrete, since they may also vary considerably due to their intrinsic physical and chemical characteristics.

We recommend, therefore, that preliminary tests are carried out before using **Dynamon RT Powder** to verify its compatibility with the specified mix in order to identify its plasticising effect on the concrete.

### CONSUMPTION

**A standard water-soluble bag of Dynamon RT Powder may be used in two different ways:**

- to increase the consistency class of 2 m<sup>3</sup> of concrete by one level.

## TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	powder
Colour:	light brown
Main action:	to increase the workability and/or reduce the amount of mixing water required
Classification according to EN 934-2:	high-efficient, super plasticising water-reducer, according to tables 3.1 and 3.2
Classification according to ASTM C494:	type F
Water-soluble chlorides according to EN 480-10 (%):	< 0.1 (absent according to EN 934-2)
Alkali content (equivalent Na <sub>2</sub> O) according to EN 480-12 (%):	< 10.0

(e.g. 2 m<sup>3</sup> of S4 concrete + 1 kg of **Dynamon RT Powder** = 2 m<sup>3</sup> of S5 concrete)



(e.g. 2 m<sup>3</sup> of S3 concrete + 1 kg of **Dynamon RT Powder** = 2 m<sup>3</sup> of S4 concrete)



- to increase the consistency class of 1 m<sup>3</sup> of concrete by two levels.  
(e.g. 1 m<sup>3</sup> of S3 concrete + 1 kg of **Dynamon RT Powder** = 1 m<sup>3</sup> of S5 concrete)



### PACKAGING

The product is supplied in 15 kg boxes containing 15x1 kg water-soluble bags.

### STORAGE

**Dynamon RT Powder** may be stored for 12 months in its sealed packaging in a dry place, at a temperature lower than 30°C. We do not recommend squeezing the bag before use to stop the powder clumping together.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Dynamon RT Powder** 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 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)

### LEGAL NOTICE

*The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, 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](http://www.mapei.com).*

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



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