

# Demper RM

## Air-detraining admixtures



### AREA OF USE

**Demper RM** is a white liquid that reduces the formation of undesirable air pores, bubbles and pockets in concrete and mortar.

**Demper RM** reduces active formation of air pores, also on concrete surfaces. This product is based on modified polysiloxanes.

**Demper RM** is an environmentally friendly product, completely free of solvents.

### PROPERTIES

Concrete always contains some air (1 - 3 %). Increased air content generally leads to a reduction of compressive strength. A rule of thumb is that 1 % air reduces compressive strength by 5 %. The amount of air pores is particularly dependent on filler fractions in the aggregate. This is why it is important to do test mixtures to find the suitable dosage based on the aggregate in question.

### DOSAGE

Dosages of 0.5 - 2.0 liters per m<sup>3</sup> are considered normal to reduce air quantities and remove undesirable surface pores.

### THE MOMENT FOR ADDING THE ADMIXTURE

**Demper RM** can be added at any time, directly into the mixer or in the auto mixer. A good distribution of the additive is best achieved after at least 30 seconds in the mixer, depending on the amount of additive added. The mixing time in automixers is 1 minute per m<sup>3</sup>, yet at least 5 minutes. For controlled reduction of air, the

time to add the additive should be the same for each mix.

### ATTENTION

Variations in the other components in the concrete can greatly influence the formation of air pores in the concrete. In some cases, distance of transport and transport equipment can also create variations to air quantities. If mixing time was too short, one will experience the total measured air quantity will increase from production to delivery, while in most cases a reduction in air quantity is noted. As a rule, this reduction is due a great amount of unwanted air bubbles escaping. The concrete manufacturer must therefore base his experience on mixing his own constituent materials.

Undesirable air pores in concrete surfaces can also be blamed on unnecessarily high use of forming (= form release agents) oil. The use of **Demper RM** will not remove pores caused by the formation of drops of forming oil.

### PACKAGING

**Demper RM** is available in 25 liter cans, 200 liter drums and in 1000 liter IBC tanks.

## STORAGE

The product must be stored at temperatures between +8 and +35°C, and will retain its properties for at least one year if stored unopened in its original packaging. If the product is exposed to direct sunlight, colour variation may occur, but this will not affect the technical properties of the product.

## SAFETY INSTRUCTIONS FOR PREPARATION AND USE

**Demper RM** is not considered dangerous according to European regulations regarding classification of chemicals. It is recommended to wear gloves and goggles and to take usual precautions for handling of chemicals.

For further and complete information about safe use of our product, please refer to our latest version of the 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 web site [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)**

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Type:	liquid
Colour:	white
Viscosity:	low viscosity; < 20 mPa*S
Density, (g/cm <sup>3</sup> ):	1.00 ± 0.02
Solid content, (%):	0.5 ± 0.2
pH:	8.5 ± 1
Chloride content, (%):	≤ 0.05
Alkali content (Na <sub>2</sub> O-equivalent), (%):	< 0.2