



The Chemical Company

## MELMIX® 1

### High Performance Plasticizer/Air Entraining Mortar Admixture Used in Ready Mixed Fresh Plaster and Mortar Production

#### Description of Product

**MELMIX® 1** is a high performance plasticizer/air entraining mortar admixture that can be used combined with **MELMIX® 2** in summer and winter seasons in ready mixed fresh plaster production

#### Standards

EN 934-3 mortar and plaster admixtures standard.

#### Fields of Application

- In the production of fresh, coarse and fine plaster.
- In mortars used in the manufacturing of bricks and ytongs.
- In plaster mortars where long-time workability is desired. (can be workable for 24, 48, 72 hours)
- In plaster mortars where impermeability is desired to be improved.

#### Features and Benefits

- Improves plaster's neatness and workability by entraining controlled air bubbles into the plaster.
- Improves strength to Freezing - Thawing cycle.
- Reduces segregation and efflorescence effects seen in plain plasters.

- It is economical.
- Increases mechanic strengths of mortar by the reduction in mixing water.
- In combined applications with **MELMIX® 2**, retards initial set and final set in plasters (up to 24, 48, and 72 hours).

#### Application Procedure

Binder (cement-micro silica-fly ash) and aggregate must be mixed until a homogenous mixture is obtained. After adding 50%-70% of the water to be added to the mixture, **MELMIX® 1** must be added to the mixture along with the remaining water. In combined applications, **MELMIX® 2** must also be added. **MELMIX® 1** must be mixed for 60 sec. or for the duration determined in laboratory experiments in the mixture for a homogenous diffusion.

#### Dosage

**MELMIX® 1** is suggested to be used as 0.1 - 0.6 kg for 100 kg binder (cement-micro silica-flyash). The dosage to be used must be determined beforehand by laboratory experiments according to concrete class and properties. **BASF Yapı Kimyasalları San. A.S.** Technical Service must be consulted for detailed information.

#### Technical Data

Color	Brown
Density	1.07 kg/liter
Chloride Content % (EN 480-10)	<0.1
Application Ground Temperature	+5°C +35°C
Service Temperature	-20°C +80°C

Obtained in +23°C, 50% relative humidity conditions. Higher temperatures decrease the time, lower temperatures increase the time.



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## Watchpoints

- Plaster design and admixture dosage must be determined by prior laboratory trials according to concrete class and properties.
- The determined binder (cement-micro silica-fly ash), at the end of laboratory trials, coarse and fine aggregate must be mixed until a homogenous and dry mixture is obtained. If admixture is added to the dry mixture before adding mixing water, then it will be absorbed by the fine aggregate and uniform distribution will not be obtained. Even if all the mixing water is added on top of this, aimed concrete class and properties cannot be obtained. Since the mixture will need extra water, the water amount in design values will be exceeded and the concrete's mechanical properties will be below the aimed value. For this reason, concrete admixtures must not be added directly to the dry mixture
- The admixture amount in the mixture is calculated by multiplying the sum of cement and secondary binders (such as micro silica-flyash-slag) in the mixture by admixture dosage ratio.
- If higher doses are used than the suggested dosage, then mechanical strengths decrease due to the increase of micro air amount in the mixture.

## Packaging

30 kg can  
230 kg drum  
1000 kg tank  
Bulk

## Storage

Must be stored in original packing, closed, and away from direct sunlight. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

## Shelf Life

12 months after the production date under appropriate storing conditions. Opened packages can be used throughout the shelf life if the package cover is well closed.

## Health and Safety Precautions

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

## Disclaimer

This information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, BASF Yapı Kimyasalları San. A.S. is only responsible from the quality of the product. BASF Yapı Kimyasalları San. A.S. cannot be hold responsible from the results caused by applications of the product not in accordance with the written suggestions of how and where to use the product and/or faulty applications.

This technical document is valid until a new one is printed and abates the previous editions. 01/2008.

