



The Chemical Company

RHEOMIX® 301

High Performance Plasticizer Admixture For Plaster Mortars

Description of Product

RHEOMIX® 301 is a high performance micro air entraining mortar admixture designed to improve impermeability, workability, and Freezing - Thawing resistance in plaster mortars.

Ministry of Public Works Pos. No: 04.613/A

Fields of Application

- In inner - outer spaces for vertical applications
- In plaster mortars to improve impermeability.
- In brick and stone coating mortars for improving workability.

Features and Benefits

- Has homogenous air entraining property.
- Reduces segregation and efflorescence effects which can be seen on mortars without admixture.
- Improves neatness and workability properties in mortars.
- Improves strength to Freezing - Thawing cycle.
- It is economical

Application Procedure

Preparation of Substrate

Cement based surfaces have to bearing, dustless, and clean. Surface must be cleaned off all kinds of oil, grease, rust, and paraffin traces that can weaken adherence. The sides of the surface, which are formed by breaking, must be cut as straight as possible, rust on the reinforcement must be cleaned, and new reinforcement must be added if necessary. If there is water leak on the surface, it has to be drained or sealed by a suitable stopper. Surface must be wetted, and **RHEOMIX® 301** admixture mortar has to be applied on wet/dry surface.

Mixing

To obtain **RHEOMIX® 301**'s air entraining properties effectively, it must be mixed by shovel or trowel until a homogenous and unumpy mixture is obtained.

In Plaster Mortars

1 m³ washed river sand in suitable gradation is mixed with 350 kg cement. Liquid mixture, prepared by adding 10 - 17 kg **RHEOMIX® 301** into 120 kg water, is added onto powder mixture

Technical Data

| | |
|--------------------------------|---|
| Structure of the Material | Diluted solution of surface active substances with organic acid |
| Color | Light Yellow |
| Solid Material Ratio | 1.8% |
| Density | 1.00 kg/liter |
| 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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until trowel consistency mortar is obtained. Surface must be wetted, and **RHEOMIX® 301** admixture mortar has to be applied on wet/dry surface.

Dosage

RHEOMIX® 301 is suggested to be used as 3-5% of total cement weight. Trial mixtures must be made to find the optimum dosage. Dosage has to be determined based on sand's properties. Cement dosage must be 350 kg.

Watchpoints

- Concrete design and admixture dosage must be determined by prior laboratory trials according to concrete class and properties.
- The determined ratio of cement and sand at the end of laboratory trials 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.

Cleaning of Tools

All the equipment must be cleaned by water immediately after the application..

Packaging

6 kg can
20 kg drum

Storage

Must be stored in original packing, closed. 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.

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