

ACS PLASTER MIX[®]

High Performance Plasticizer Admixture for Plaster Mortars



■ Description

ACS PLASTER MIX[®] is a high performance micro air entraining mortar admixture designed to improve impermeability, workability and freeze-thaw resistance in plaster mortars.
(Poz No : 04.613/A)

■ Place of usage

- In plaster mortars to improve impermeability.
- In inner-outer spaces for applications.

- To increase the machinability of mortars used for the assembly of coating materials.

■ Advantages

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

TECHNICAL CHARACTERISTICS

Structure of the Materia	Mixture of organic acidic surfactants in aqueous solution.
Color	Yellow
Solids	% 1,7
Density	1,05 kg/liter
Application Floor Temperature	+ 5°C - +35°C
Service Temperature	- 20°C - +80°C

NOTE: The above values are given at + 23 °C and 50% relative humidity environment. High temperatures shorten the time, low temperatures prolong the time.

APPLICATION PROCEDURE / PREPARATION OF SUBSTRATE

Attention should be paid to the fact that the cement-based surfaces of the structures that come into contact with water are sound, dry, carrier, dustless and clean and at the same time level. Surface must be thoroughly cleaned with oil, grease, rust and paraffin residues which will weaken adhesion by washing with water jet machine. The iron and wooden blocks on the surface should be removed and active water leaks and gaps should be filled with **ACS MORTAR[®]** group repair mortars. The surface must be soaked with water before application, **ACS PLASTER MIX[®]** mortar must be applied to wet / dry surface.

MIXING

To obtain **ACS PLASTER MIX[®]** air entraining properties effec-

tively, 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 350-370 kg cement. Liquid mixture, prepared by adding 12-15 kg **ACS PLASTER MIX[®]** into 118 kg water, is added onto powder mixture until trowel consistency mortar is obtained. Surface must be wetted and **ACS PLASTER MIX[®]** admixture mortar has to be applied on wet/dry.

MIXTURE DOSAGE

ACS PLASTER MIX[®], is suggested to be used as 4-6% of total cement weight. Trial mixtures must be made to find the optimum dosage. Dosage has to be determined based on sand's properties. The dosage of cement should be minimum 350 kg.

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TIPS TO NOTICE

- 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 fly ash-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 with water immediately after the application.

PACKAGING

6 kg and 20 kg plastic container

STORAGE

In unopened original package, it should be stored in a cool and dry environment protected from the freezing. 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. Ambient Temperature should be at least 10 °C and above.

SHELF LIFE

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be closed firmly and consumed within 1 week.

SAFETY

During the application, work clothes, protective gloves, goggles and masks should be used in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not be allowed to come into contact with the skin and the eye. In case of contact, immediately wash with plenty of water and soap. If swallowed, seek medical advice immediately. Food and beverages should not be left at the application areas. Keep out of reach of children.



□ Responsibility

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is only responsible for the quality of the product. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (06/2019)