

ARALÇI MOULDING PLASTER

■ Definition

It is a gypsum plaster used indoors for decorative purposes.

■ Area of application

-Used in the applications with the purpose of enrichment and decoration of indoors such as crown molding, curtain board, ceiling spotlights, column and ceiling floor etc.

■ Application features

Setting Time: min. 8 minutes (by cutting method)

-ARALÇI MOLDING PLASTER is a high-strength, white and smooth construction plaster on which a paint can easily be applied, and that adds beauty to the surfaces it is applied.

-It is also ideal for manufacturing moulds in the ceramic industry.

-Using period allows you to apply it comfortably and without any wastes.

-Its fineness, whiteness and setting time offer an appropriate working condition.

-It can be used as the construction plaster.

■ Surface preparation

-The application surfaces must be cleared of dust, dirt, oil, etc. that prevent adherence.

-It is necessary to make sure that the surface has been cured and robust.

■ Application conditions

-Ambient temperature should be between +5°C and +35°C

-Do not apply on frozen, melting surfaces, or surfaces likely to freeze within 24 hours.

-The newly applied surfaces must be **protected against water contact definitely**.

-Do not apply on surfaces under direct sun or strong wind, or hot surfaces.

■ Warnings and Advices

-Pay attention to the water/plaster ratio of the mix. Otherwise, it may cause spalling, cracks or strength reduction.

-Do not apply in very hot, dry or windy environments. If applied in very hot environments, it may cause spalling, cracks and strength reduction consequently.

-Pay attention to the product storing conditions. Do not keep the product in humid or very hot places.

-In case any petrification is found out in the bag, do not use the product.

-Do not breath its powder since it consists of various chemical additives and plaster. Avoid contact with skin and eyes. In case of contact, wash your skin/eyes with plenty of water. Use protective equipment such as mask, gloves etc. during the works.

■ Application tools

Hand mixer

■ Application

-The container in which the mortar will be prepared must be clean and cleared of the remnants of the previous mixture.

-The water used in the mixture should not be salty, acidic or oily. The water temperature must be between 17 and 23°C.

-The mortar must be prepared by using 7 kg of water and 10 kg of ARALÇI MOLDING PLASTER.

-Water is poured into the container, and then ARALÇI MOLDING PLASTER is added. The plaster is given 2-3 minutes to absorb the water.

-The plaster is mixed until a homogeneous consistency is achieved by mixing with a trowel or hand mixer.

-If a hand mixer is used, operate the hand mixer in low speed since the operating speed can affect the setting time.

-In the mixing container, the mortar is mixed until a homogeneous flowing consistency is achieved.

-No water or plaster should be added into the mortar during or after mixing to prevent lump formation.

-Do not mix any other product or materials into ARALÇI MOLDING PLASTER.

-The mold of the mortar must be cleaned and placed on a surface enabling to vibrate the mold easily.

-The mold surface is lubricated with an appropriate lubricant to ensure smooth removal of the plaster from the mold.

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- The mortar is poured into the mold and ensured to cover the inside of the mold completely.
- Hemp is added if necessary to increase the strength.

- The surroundings of the mold is cleaned when the plaster begins to set.
- The plaster in the mold will begin to warm. After the warming period, the plaster is unmolded.
- The unmolded plaster is kept in the ambient temperature until it dries out. This will prevent breakage and cracks during installation.
- The mortar to be used in order to bond the mould can be prepared by using ARALÇI MOULDING PLASTER in the same way.

■ Consumption

1 kg/m² (for 1 mm thickness)

■ Performance Details

- Bending strength after two hours: $\geq 1,5$ N/mm²
- Bending strength after seven days: ≥ 2 N/mm²
- Surface Stiffness after two hours: ≥ 4 N/mm²
- Surface stiffness after seven days: ≥ 10 N/mm²
- Setting time start: ≥ 8 minutes (by cutting method)
- Calcium Sulphate percentage: $\geq 50\%$
- Insulating the sound spreading through the air: NPD
- Heat Resistance: $\leq 0,28$ W(m/K)
- Reaction to Fire: Class A 1
- Dry Surface Stiffness: ≥ 55 SHORE D
- Temperature resistance: between -30°C and +60°C
- Note: The application features have been determined in consequence of the tests conducted in laboratory environment ($23 \pm 2^\circ\text{C}$ and $50\% \pm 5$ humidity, and no air current), and thus, they may vary by different ambient conditions. The performance details have been tested in the ambients specified in accordance with the relevant standard of the product, and different results may be observed in different ambients.

■ Reference Standards

- TS EN 13279-1//C1/8
- CE

■ Packaging

- 30 kg polypropylene laminated bag

■ Physical form

- White, powder

■ Storage Conditions

- Bags must be stored in a dry place and to a height that does not exceed 18 bags. Bags must be stored so as not to contact with the ground in order them to be protected against humid. ARALÇI MOULDING PLASTER stored as described above must be used within 12 months as of the production date. Inappropriate storage or exceeding the expiry date may deteriorate the properties of the product.