

ARALÇI PERLITE GYPSUM PLASTER

■ Definition

It is ready-to-use gypsum plaster whose setting and processing times have been lengthened and heat and sound insulation characteristics have been increased, and applied manually.

■ Area of application

-Can be applied on surface kinds such as bricks, briquets, gas concrete, concrete and exposed concrete easily.

■ Application features

- Using period: 100-120 minutes
- Application thickness: min. 10 mm, max. 20mm
- Setting time: 60-80 minutes later
- An inflammable construction material.
- Never allows bacterial or fungi growth.

■ Surface preparation

- The application surfaces must be cleared of dust, dirt, oil, etc. that prevent adherence.
- Any irregularities on the application surfaces, if any, are repaired with ARKIM ARREPAIR THIN or ARKIM ARREPAIR THICK.
- It is necessary to make sure that the surface has been cured and robust.
- Metal surfaces must be protected against corrosion before application.
- Exposed concrete, ceiling and wall roughening process must be done using ARKIM ARKONTAK primer increasing the adherence.

■ 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.
- Do not apply on surfaces under direct sun or strong wind, or hot surfaces.
- The newly applied surfaces must be **protected against water contact definitely.**

■ 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, plastering trowel, floating rule, steel trowel

■ Application

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

-It is necessary to pay attention to cleanliness of the water and materials used.

-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 5.5-6 liters of water and 10 kg of ARALÇI PERLITE GYPSUM PLASTER.

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

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

-If you are using a mechanical mixer, it must be used at a low speed. High speed increases the plaster consumption, and causes irregularities such as early hardening.

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

-It must be **ensured** that the application surface is **moistened** prior to application.

-Aluminum floating rule is used to make the surface smooth, and the surplus mortar is removed.

-After the plaster has set sufficiently, the surface is trimmed and smoothed using a steel trowel.

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-The application thickness must be 8 to 10 mm on ceiling,
and 10 to 20 mm on the other facades. If a second layer of

plaster is required, application must be made before
previous layer is fully cured. The application must not
exceed one coat on ceilings and two coats on the other
surfaces.

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

-The surface of ARALÇI PERLITE GYPSUM PLASTER must
be protected against the wind in order not to dry quickly.

■ 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 PERLITE GYPSUM 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.

■ Consumption

-7.5-8 kg/m² (for 10 mm thickness)

■ Performance Details

-Bending Strength: $\geq 1 \text{ N/mm}^2$

-Compressive Strength: $\geq 2 \text{ N/mm}^2$

-Adhesion Endurance: $0,1 \text{ N/mm}^2$

-Calcium Sulphate percentage: $\geq 50\%$

-Setting time start: ≥ 20 minutes

-Insulating the sound spreading through the air: NPD

-Heat Resistance: $\leq 0,34 \text{ W(m/K)}$

-Reaction to Fire: Class A 1

-Dry Surface Stiffness: $\geq 40 \text{ SHORE D}$

-Temperature resistance: between -30°C and $+60^\circ\text{C}$

-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//B4/20/2

-CE

■ Packaging

-30-35 kg polypropylen laminated bag

-1 and 5kg plastic bags

■ Physical form

-White, powder