



Technical Data Sheet:
Glue for Tiles

Code:
2312

Ref.: ST2312
Rev.: 2
Date: 02/12/2010

Product Type:
Glue for Tiles

Formats:
5 – 1 kg

Product Characteristics:

It is a powder glue composed of white cement, aggregates with selected grain size and special additives. Their formulation is the result of years of experience and is guaranteed by the fact that the product is used, every year, thousands of times both in Italy and abroad. Mixed with water, it results in a shiny, plastic paste with good adhesive properties against all cladding materials and substrates used in construction.

Technical Specifications of the Product:

CHARACTERISTIC	VALUE
Consistency	Very doughy
Color	White

Technical Details:

Mixing ratio: 28 parts water to 100 parts powder

Application temperature: +5 to +40° C

Mixing life time (pot life): 8 hours

Time open at 23°C and 50% humidity: 20 minutes

Coating joints on dry substrates at 23° C: 12- 24 hours

Walkability on dry substrates at 23° C: 48 hours

Final hardening on dry substrates: 14 days

FINAL PERFORMANCE	UM	VALUE	MIN. REQUIREMENT REQUIRED
Initial adherence 28 days	N/mm ²	0.9	+ 0.5

Use / Applications:

Product for gluing sanitary and wall tiles of all types and sizes up to 30 x 30 cm, for both indoor and outdoor use.

It has fast and tenacious setting.

How to use:

1) Substrates and contraindications: substrates must be fixed and non-deformable, and should not be free to move apart from the elastic oscillations and vibrations of the structures. Substrates made of lightweight, thin prefabricated panels of gypsum plaster, plasterboard, wood, etc. are therefore not suitable. The most suitable substrates are exposed concrete, expanded concrete, civil plaster and cement mortar.

Old plaster must be in good condition and free of oil, grease and dust.

If any paint is present, it must be in very good condition, washed and degreased, otherwise it must be carefully scraped off until the grain of the plaster is revealed.

Gypsum plaster must be perfectly dry.

2) Preparation of the mixture: Mix the glue for tiles with 28% clean water according to the weight of the powder until a shiny, plastic and homogeneous mixture is obtained. Please make sure to always pour the powder into the water and not the other way around.

Let set for 5-10 minutes then stir briefly. The glue is ready for use and is workable for 8 hours.

The mixing can be done by hand or by machine, as long as the impeller makes a low number of turns per minute.



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- 3) **Laying tiles:** lay the tiles by applying good pressure so that contact with the glue is at least 80% of their surface. Under normal conditions, the 'open time' of the glue is approx. 20-30 minutes and the correction time is approx. 40 minutes.
- Under unfavourable conditions, however, these time intervals can be reduced significantly, and it is necessary to check from time to time that the glue applied to the wall has not formed a surface film. Otherwise, it is necessary to eliminate the problem by repeating the application with a trowel.
- Some useful tricks to improve workability, especially in the summer, are: wet the substrate (except of course in the presence of plaster), humidify the working environment and eliminate draughts. Avoid laying where there is a danger of frost. In fact, in the 48 hours following laying, a temperature below 0°C would freeze the water still contained in the mix, causing it to increase in volume and thus causing the coating to detach. Grouting of the joints must be carried out after 12 hours at least after laying in summer, 24 hours in autumn and winter, and is fully stressable after 14 days.

Additional Information:

The quantity of product required depends on the condition of the substrate and the type of trowel used. With a smooth substrate and a layer of glue which is 5-6 mm thick, up to 3-4 kg/m² is required, and it increases by 0.5-1 kg/m² in the case of a rough substrate.

Surfaces should be cleaned with a damp cloth or sponge when the glue has already begun to set and can only be done with more water several hours after laying.

Storage: 12 months in tightly closed original packaging protected from moisture.

It is not harmful. Please note that because of the cement content, it may irritate the skin and eyes through contact. Appropriate protection is recommended. Non-flammable product

The above information is provided based on our theoretical and practical knowledge. The company, however, does not assume any liability as the conditions of use and application are not subject to the control of Fidea SpA