

ADIMAR FLEXIBLE GEL

The Adimar Flexible Gel ceramic tile adhesive manufactured by AYMARS.A.U. is an improved powder-free cementitious adhesive reinforced with polymeric fibres. It has a finer granulometry that allows for better distribution on the substrate. Depending on the mixing water, it has the capacity to have two types of consistency: gel consistency (creamy, light and thixotropic for vertical application) and fluid consistency (with greater smoothness and ease of application on horizontal substrates). It has reduced slip, prolonged open time and is deformable type C2TES1 in accordance with the UNE-EN 12004:2017 standard, designed with marble aggregates, cement and special additives that give it a high resistance to sagging and settling in pieces of large format or weight. In addition to adhesion, sliding and water retention suitable for laying ceramic tiles.

Composition

Component	Description	Standard
Aggregate	Crushed marble aggregates used in construction	EN 12620 EN 13139
Cement	Portland cement	EN 197-1 UNE 80601
Additives	Additives of both organic and inorganic nature that give it better adhesion, slip and transverse deformation characteristics.	

Application field

Adimar Flexible Gel has ideal characteristics for fixing small and large format ceramic, marble, stone or similar pieces, absorbent or non-absorbent, on mortar render, concrete, large format brick, marble, terrazzo, prefabricated blocks, gypsum, plasterboard, anhydrite, etc. In exterior applications (façade cladding, etc.) and interior applications (flooring of large surfaces, etc.). Thanks to its flexibility, it is able to withstand thermal shocks and small differential movements produced by the substrate, making it suitable for radiant heating floors and applications on floors with heavy traffic, and is even suitable for immersion, e.g. swimming pools. Suitable for overlaying on old stoneware floor and wall tiles.

Instructions for use

- Preparation of the substrate: The substrate on which the application is to be carried out must be resistant, dry, level, dust-free and free of any traces of release agent.
- Preparation of the mixture: add 7.75-8.25 l of water per bag and mix manually or mechanically, with a low speed electric mixer, to eliminate any possible lumps in the paste, leave the mixture to stand for 5 min. and briefly re-mix it.
- Application of the paste: Apply the product on the substrate using a toothed flame, to regularise the thickness, in a maximum extension of 2 m², applying sufficient pressure so that the minimum contact with the cement is 80%. Lay the tiles, pressing them until the grooves are flattened and the tiles are correctly set with the help of a rubber mallet. It is necessary to check periodically with the fingertips that the adhesive has not formed a film on the surface. If this happens, the product should be combed again, bearing in mind that we are still within the open time of the adhesive (if the time since its application has exceeded the aforementioned open time, the adhesive should be removed and reapplied).

Recommendations for use

- The application temperature must be between 5 °C and 35 °C on the substrate.
- Do not apply on substrates with residual humidity > 5%.
- Check the planimetry of the substrate with a 2 m ruler, verifying that the deviations must be less than 5 mm. If there are larger deviations, they must be regularised before application.
- Do not apply if frost is expected or in full sun.
- It is advisable to leave a minimum joint of 2 mm between tiles by applying ADIMAR UNIVERSAL JOINT 0/15 or TECHNICAL JOINT 0/16.
- Cold rooms must remain turned off until the adhesive curing is complete, a minimum of 7 days depending on the environmental conditions.
- In case of use in swimming pools, the pool can be refilled 7 days after application.
- For large format ceramics (the longest side of the tile > 1.5m) or for ceramic sheets (3.6mx1.5m) apply Adimar Superflex.
- For façade cladding:
 - Leave a minimum joint of 5 mm, applying ADIMAR UNIVERSAL JOINT 0/15 or TECHNICAL JOINT 0/16.
 - Make expansion joints every 30 m2 in large formats or every 60 m2 in small formats, as well as perimeter joints in cornices, overhangs of slabs and respect the structural joints of the building.
 - To prevent water from entering the bonding layer, which would favour detachment in the event of frost, protect the upper edges of the cladding with metal profiles, guttering, etc.
- Do not apply to tiles with a high coefficient of expansion.
- For sizes greater than 2400 cm2 or weights greater than 40 Kg/m2 it is essential to use mechanical anchors or safety staples and double gluing.
- In ceramic overlaps, remove poorly adhered pieces and fill the gaps the day before application. Make sure that the ceramic tile is free of grease or wax, sanding it if necessary.
- On very absorbent substrates it is advisable to dampen it and wait until it is dry.
- Maximum recommended thickness: 10 mm.
- In applications on ceramic flooring, it is recommended to remove badly adhered tiles, carry out a surface sanding and double gluing.
- Always double glue for large tiles (> 1200cm2) or heavy tiles and on substrates with radiant heating, which must be switched off 24 hours before application.
- On deformable substrates (plasterboard), check the rigidity of the partition and that the residual humidity is < 3%. If the substrate is weak, apply a surface hardening treatment by means of a primer.
- Do not apply on dead plaster that has received a thin layer of final plaster.

Performance

Destination	Area (cm ²)	Trowell dimensions (mm)	Anchoring mode	Consumption (Kg/m ²)
Inside	50<S≤300	U6 (6x6x6)	Simple	3,5
	300<S≤1200	U9 (9x9x9)	Double	6
	1200<S≤2200	U9 (9x9x9)	Double	6
	2200<S≤10000	half moon (20x10x8)	Double	7
Exterior	500<S≤3000	U6 (6x6x6)	Double	5
		U9 (9x9x9)	Double	6
	1200<S≤3600	half moon (20x10x8)	Double	7

Technical Data

Product	Type	C2TES1		Classification according to the standard EN 12004-1:2017
	Colour	White/Grey		
Application	Mixing water	Thixotropic consistency: 31%-32% Fluid consistency: 33%-34%		
	Mixing ratio	7,75-8,25 l per sac 25Kg		
	Maturing time	5'		
	Open time	30'	EN 12004-2:2017	
	Setting time	40'		
	Slip	< 0,5 mm	EN 12004-2:2017	
	Grouting at	24h		
Passable at	24h (light traffic)			
Final yields	Initial adhesion	>1,0N/mm ²	EN 12004-2:2017	
	Adhesion after water immersion	>1,0N/mm ²		
	Adhesion after heat ageing	>1,0N/mm ²		
	Adhesion after freeze-thaw cycles	>1,0N/mm ²		
	Adhesion open time, 20' Adhesion open time, 20'	>0,5 N/mm ²		
	Adhesion open time, 30' Adhesion open time, 30'	>0,5 N/mm ²		
Transverse deformation	2,5 mm > d < 5 mm			
Storage	12 months	Store in a covered, dry and ventilated place with the container closed.		
Presentation	25 kg bags			
Tariff Code	38245090			

For safety precautions in the use, storage and disposal of the product, please refer to the Safety Data Sheet available on the web site www.aymarsa.es

NOTE: The information contained in this technical sheet is based on our experience and on tests carried out in specialised laboratories. The characteristics of the resulting product will depend on the correct preparation and application on site by the user. If these conditions are not met, the characteristics indicated above will not be achieved.



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