

Adigrout

Hydraulic, single-component, fluid, fast-setting, controlled-shrinkage mortar reinforced with polymeric fibers for filling and anchoring structural elements.

Composition

Composed of **crushed marble aggregates** used in construction, **Portland cement** and **both organic and inorganic additives** that give it high mechanical properties and better characteristics in adhesion and fluidity.

Field of application

- For filling by pouring under support plates due to the perfect distribution of loads over its entire surface
- For the filling and anchoring of metal profiles (pillars, pipe supports, etc.) and elements prefabricated.
- For the filling of machinery benches due to its resistance to shocks and vibrations.
- Its rapid commissioning makes it ideal for the repair of progressive deterioration of concrete in operations to replace structural support devices in bridges and structures.
- For filling cracks and rigid cavities in concrete and mortar.
- For the execution of foundation underpinning.

Instructions for use

Preparation of the support:

- The support on which the application is to be made must be completely set, resistant, consistent, rough, clean of dust, paint, oil, ... and not present traces of release agent.
- The metal elements must be rust-free.
- The absorbent support should be moistened to saturation in order to clog the pores and thus avoid excessive loss of water from the Adigrout during the curing of the application, as this may result in a loss of mechanical properties. It is important to remove any unabsorbed water (until the surface takes on a matte appearance) by evaporation or with the help of compressed air or a sponge.
- Applications on smooth or polished substrates must be pre-treated with a FIXMAR PRIMER GR bonding bridge.

Preparation of the mixture:

- **Electric mixer:** Add 3.75-4 litres of clean water in a container with a wide mouth and bottom, gradually add a 25 kg bag of Adigrout and mix at low revolutions (maximum 600 r.p.m) for approximately 3 minutes, until a homogeneous paste is obtained, without the presence of lumps and fluid. It is important that the mixer's rotation speed is slow to avoid excess air inclusion in the paste that can reduce the mechanical properties.
- **Concrete mixer:** pour 2/3 of the clean water (2.5-2.6 litres), start the concrete mixer, add a 25kg bag of Adigrout slowly and gradually and mix for 2 minutes. Peel off the non-dispersed material adhered to the walls of the concrete mixer, add the remaining water until the exact proportion is completed (1.25-1.4 litres) and knead again for 3 minutes until a homogeneous paste is obtained, without the presence of lumps and fluid.

Application of the paste:

Immediately after kneading the paste, and taking into account the air outlet necessary for its correct application, it is poured by pouring or pumping into the hole to be filled with the help of a rod to ensure that the mortar completely fills the hole. Try to apply it all at once and in the same direction to avoid air inclusions that can compromise the properties of the material.

- In applications where solid, well-anchored and perfectly watertight formwork is required, wait at least one day before demolding.
- In bolt anchors, the diameter of the holes must be not less than twice the diameter of the bar to be anchored. For this application pour the mortar until it occupies about 1/4 of the length of the gap, then insert the bolt and finish filling until the mortar overflows.

Recommendations for use

- Do not apply below 5°C or above 35°C.
- Do not add more water than recommended or rekneding.
- Do not add cement, sand or other substances that may affect the properties of the mortar.
- Not suitable for surface leveling. On free surfaces there is a possibility of cracks. In this case, the use of **SELF-LEVELLING MORTAR L20** or **SELF-LEVELLING MORTAR L50 is recommended.**
- Do not apply on icy substrates, in the process of thawing or if imminent snowfall is expected
- Protect from drying out (sun, wind, etc.) by moistening the surface, but avoiding washing it.

Technical data

Product	Aspect	Dust	
	Color	Grey	
Product	Powder Density	1,71 g/cm ³	
	Granulometry	4 mm	EN 12192-1
	Application Thickness	Between 30 y 100 mm	
	Kneading water	15-16 %	
Application	Yield	20 Kg/m ² y cm of thick	
	Mixing Density	2,27 g/cm ³	
	Start of setting	4,5 h	
	Setting finish	5,5 h	
	Pasta Life	15' - 20'	
Final yields	Compressive strength 24 h	> 20 N/mm ²	EN 12190
	24-hour bending strength	> 5 N/mm ²	EN 12190
	Compressive strength 7 days	> 50 N/mm ²	EN 12190
	Bending strength 7 days	> 7 N/mm ²	EN 12190
	Compressive strength 28 days	> 55 N/mm ²	EN 12190
	Flexural strength 28 days	> 10 N/mm ²	EN 12190
	Pulling out	< 0,6 mm	prEN 1881
	Chloride ion content	< 0,05%	EN 1015-17
	Reaction to fire	Class A1	Decision 96/603/CE
Storage	12 months	Store with the container closed and in a covered, dry and ventilated	
Presentation	Sacks of 25 kg		
Tariff code	3824 50 90		

Clasificación según la norma EN 1504-6

MADE IN SPAIN

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

NOTE: The information contained in this technical sheet is based on our experience and tests carried out in specialized 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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