

Technical Data Sheet

Ali Pre



Description

Ali Pre is 100% made of ground sulphotoaluminate. Used in three-component mixes with calcium sulphate and Portland cement, it allows varying setting times throughout a very wide time interval by varying mixing ratios. Moreover, it provides rapid early strength evolution and progressive strength gain in the medium and long term until exceeding the values shown by the best-performing Portland cements.

Applications

Mixed with anhydrite/gypsum and Portland cement, Ali Pre is recommended for the following formulations:

- Technical rapid-setting mortars (for repairs, fixing, etc.)
- Rapid or semi-rapid casting mortars
- Mortars for mechanical spraying
- Non-shrink mortars
- Grouts
- Rapid or semi-rapid drying screeds
- Self-levelling rapid drying screeds
- Rapid sealants

Sustainability

Ali Pre is produced using a percentage of recycled raw materials. Environmental impact indicators can be found in the product Environmental Product Declaration (EPD).

Properties

It is generally used in ternary mixes with calcium sulphate and Portland cement to obtain the following physical mechanical properties:

- Differentiated setting time in a very wide time interval according to mixing ratios of Ali Pre, Portland cement and calcium sulphate
- Development of rapid early strength
- Progressive strength increase in the medium and long term up to exceed the values of the best performing Portland cements

Main phases (%)

$C_4A_3\dot{S}$	$C_2\dot{S}$	$C\dot{S}$
≥ 58	≤ 25	≤ 5

Specific surface area – Blaine fineness = $4750 \pm 250 \text{ cm}^2/\text{g}$

Main chemical components (%)

CaO	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	SO ₃	MgO
36 ÷ 41	$\leq 9,2$	27 ÷ 33	$\leq 1,6$	10 ÷ 14	$\leq 5,0$

Benefits

- Ali Pre allows the formulation of shrinkage-compensating products
- Ali Pre allows controlling the setting time and strength development by changing the mix ratio to Portland cement and calcium sulphate.
- Ali Pre, if correctly stored, offers excellent stability over time, so that formulations do not require to be adjusted as a function of product aging.
- Ali Pre allows the production of premixes with excellent stability properties, thus extending the shelf life of products.
- Ali Pre may allow to obtain credits for some of the criteria in the certification system LEED (Leadership in Energy and Environmental Design) of buildings in urban areas.

Packaging and storage

Store in dry place.

For professional use only. The user is advised to conduct tests and assessments in order to define the suitability of the product for the intended application.

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For information

Technical Assistance

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