

HYGROSMART® –ADHESIVE A100

High Performance Cement Based Adhesive with No Vertical Slip

DESCRIPTION

HYGROSMART®-ADHESIVE A100 is high quality cement based tile adhesive modified with a high quality synthetic resin. It displays excellent technical characteristics and no vertical slip. The material is easily applied on both horizontal and vertical substrates, irrespective of climatic conditions, and has excellent adhesive properties.

COMPLIANCE-CERTIFICATION

The product is **CE** certified as a type **C2TS1** adhesive according to the European Standard **EN 12004**.

RECOMMENDED FOR

Recommended as a tile adhesive for installation of ceramic tiles on floors and walls, for both internal and external use. Suitable for application on cement screeds, concrete and gypsum plaster. Highly recommended as a tile adhesive on substrates that have been waterproofed with **HYPERDESMO®**.

LIMITATIONS



Substrates which have been waterproofed with **HYPERDESMO®** prior to tile application should be left for 3 days before grouting and sealing of the tile joints. In this 3 day period the area in question should not be subjected to traffic.

FEATURES AND BENEFITS

- Easy application
- Long open time
- Excellent adhesion on construction substrates
- Excellent adhesion on **HYPERDESMO®**
- Excellent technical characteristics
- Non-Toxic

APPLICATION PROCEDURE

Substrate Preparation:

Remove oil, grease and wax contaminants, cement laitance, loose particles. Fill surface irregularities with the necessary product.

Homogenize the mixture of tile adhesive with water until no lumps are visible. If the substrate is very dry, it is recommended that it is dampened before installation. Apply the adhesive and fix tiles by applying moderate pressure.

Mixing-Application:

HYGROSMART®-ADHESIVE A100 (25Kg) is added gradually under mechanical mixing to 7-8 Kg water (% water approximately 30% b.w of tile adhesive). Allow mix to stand for 5 minutes and re-mix.

The substrate is dampened and the adhesive is applied by notched trowel.

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The tile adhesive, after application and “combing”, should be covered with tiles within 20 minutes.

The temperature during application should be between +5°C and +35°C.

Application on HYPERDESMO®:

In the case of tile application over a substrate that has been waterproofed with **HYPERDESMO®**, a minimum of 48 hours after application of **HYPERDESMO®** must lapse before applying tile adhesive.

Quartz sand broadcasting on **HYPERDESMO®** is not mandatory.

It is necessary to create expansion joints between tiles, which should be filled with polyurethane sealant **HYPERSEAL®-50FC**. However, as to not affect the mechanical properties of the tile adhesive, the grouting and sealing of the joints should not be carried out until after 3 days of tile fixing. Within this period, no pedestrian traffic should be allowed.

CONSUMPTION

3-5 Kg/m².

CLEANING

Brushes and tools can be cleaned with water. Dried product cannot be cleaned with water and can be removed only by mechanical means.

PACKAGING

25 kg paper bags. **Color:** white

STORAGE


The product can be kept for minimum 12 months in the original unopened packaging. Should be stored in dry conditions and at temperatures of 5-25 °C. Once opened, use as soon as possible.

SAFETY

HYGROSMART®-ADHESIVE A100 contains cement and is therefore irritating. Please use protective equipment and clothing during application.

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TECHNICAL SPECIFICATIONS

 2001
ALCHIMICA S.A. Oryzomyon 13, Aigaleo - GREECE
12 DoP CPR-1550E EN 12004:2007
HYGROSMART ADHESIVE A-100 Improved, fast setting cementitious adhesive for tiling, C2TS1

PROPERTY	UNIT	RESULT	SPECIFICATION (EN 12004)
Water requirement	%	30% by weight	-
Slip	mm	0.34	≤0,5
Deformability	mm	3.00	>2,5
Open time	min	≥20	-
Adhesion after: <ul style="list-style-type: none"> • 28 days • Water immersion • Heating to +70°C • 25 freeze-thaw cycles 	N/mm ²	2,05 1,26 1,12 1,14	>1

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