

## HYGROSMART® –ADHESIVE ULTRA-2K

**Two-component, high performance, deformable, quick-setting and drying cementitious adhesive with no vertical slip and extended open time for ceramic tiles and stone material**

### DESCRIPTION

**HYGROSMART®-ADHESIVE ULTRA-2K** is a deformable, fast-setting (F) cementitious (C) adhesive with improved adhesion, slip resistant (T) and with extended open time (E).

### COMPLIANCE-CERTIFICATION

The product is **CE** certified as a type **C2TE S1** adhesive according to the European Standard **EN 12004:2007+A1:2012**.

### RECOMMENDED FOR

Bonding to internal and external walls and floors of all types and sizes of ceramic tiles, natural stones and artificial materials.

### APPLICATIONS

-Laying ceramic and stone floor coverings which are subject to intense traffic.

-Laying tiles on deformable substrates: marine plywood, wooden agglomerates, old wooden floors, etc.

-Quick laying or repair of tiled finishes in places such as swimming pools, refrigeration units, industrial plants.

-Laying even large-sized ceramic and stone tiles on facades, balconies, terraces

-Laying tiles in areas subject to high mechanical stresses and vibration

-Laying tiles on concrete substrates and pre-cast walls.

### APPLICATION PROCEDURE

Substrate Preparation:

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

Mix 25 kg of component A with 6.25 kg of component B. It is best to use a low-speed mechanical mixer to obtain a smooth, homogenous paste.

Apply **HYGROSMART®-ADHESIVE ULTRA-2K** on the substrate with a notched trowel. Use a trowel which guarantees that the adhesive is spread well on the back of the tile.

To achieve a good bond, first spread a thin layer of **HYGROSMART®-ADHESIVE ULTRA-2K** on the substrate using the smooth side of the trowel, and then immediately apply another layer to the thickness required with a notched trowel according to the type and size of the tile. The tiles must be laid by pressing them down firmly to ensure good contact with the adhesive.

Under normal climatic conditions, the open time of **HYGROSMART®-ADHESIVE ULTRA-2K** is approximately 30 minutes. Surfaces tiled with

## HYGROSMART<sup>®</sup> –ADHESIVE ULTRA-2K

**HYGROSMART<sup>®</sup>-ADHESIVE ULTRA-2K** must not be washed down or exposed to rain for at least 3-4 hours and must be protected from strong, direct sunlight for at least 12 hours.

### CONSUMPTION

Mosaics and small-sized tiles (trowel No.4): 2.5-3 kg/m<sup>2</sup>.

Normal-sized tiles (trowel No. 5): 3.5-4 kg/m<sup>2</sup>

Large tiles and external floors (trowel No. 6): 5-6 kg/m<sup>2</sup>

Uneven back faces and substrates, natural stone (trowel No. 10): 8 kg/m<sup>2</sup> or more.

### 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

Comp. A: 25kg, Comp. B:6.25kg

**Colour:** grey

### STORAGE

The product can be kept for a minimum of 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<sup>®</sup>-ADHESIVE ULTRA-2K** contains cement and is therefore irritating. Please use protective equipment and clothing during application.

## TECHNICAL SPECIFICATIONS

PROPERTY	UNIT	RESULT
Bulk density of Comp. A	Kg/l	1,50
Density of Comp. B	Kg/l	1.00-1,05
pH of Comp. B	-	7-8
Pot life in the pail	min	60-75
Open time	min	30

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EN 12004:2007+A1:2012

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HYGROSMART® ADHESIVE ULTRA-2K

**Cementitious adhesive for ceramic tiles for external and internal use**

www.alchimica.com

Characteristics	Performance values	Requirement EN 12004 + A1 type C2TE S1	Harmonized technical specification
Initial tensile adhesion strength	1.93 MPa	≥1.0 MPa	EN 12004:2007+ A1:2012
Water immersion tensile adhesion strength	1.48 MPa	≥1.0 MPa	
Heat ageing tensile adhesion strength	2.31 MPa	≥1.0 MPa	
Freeze/thaw tensile adhesion strength	1.53 MPa	≥1.0 MPa	
Release of dangerous substances • Index of mass activity "I"	0.25 +/- 0.04	≤1.0	

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