

# Aquaria

**Two-component cement-based adhesive for the installation of any type of tile, even large sized, in swimming-pools and façades. It is thixotropic, highly deformable, rapid setting, specific for stable, stain sensitive natural stones.**



## Fields of application:

- to apply floor and wall tiles of any size in porcelain stoneware, low thickness stoneware, thin stoneware, single and double fired material, glass mosaic, ceramic mosaic, solid natural or artificial stones and granites, indoors and outdoors, on cured cement-based screeds, on screeds made with Basecem or Basecem Pronto, on self-levelling products such as Planirapid Autolivellante or Planirapid Autolivellante Maxi, on smoothing plasters such as Rasoplan Tixo, on anhydrite screeds and on radiating floors. To apply wall tiles on traditional render, pre-mixed render, plasterboard, gypsum;
- for tile over tile application of any size in porcelain stoneware and low thickness stoneware, after cleaning with Detergente Basico;
- to apply tiles of any size in porcelain stoneware, low thickness stoneware, thin stoneware, single and double fired material, glass

mosaic, ceramic mosaic, stable marbles, granites or any type of stable natural or artificial stones, on cement-based screeds, in swimming-pools, fountains, saunas, wellness centers;

- to spot-bond insulating materials;
- to apply floor and wall tiles of any size in porcelain stoneware, low thickness stoneware, thin stoneware, single and double fired material, glass mosaic, ceramic mosaic and solid natural or artificial stones indoors and outdoors on waterproofing membranes such as Sanigum, Scudo Revolution and Scudo A+B;
- to apply in outdoor façades;
- professional use only.

## Characteristics:

**Aquaria** is a two-component cement-based adhesive with rapid setting, classified C2FT according to norm EN 12004 and S2 according to norm EN 12002. The formula of **Aquaria**, made up of selected aggregates, improved hydraulic binders, hybrid polymers and with the addition of a synthetic elasto-acrylic latex, gives the adhesive an open time of 30 minutes, making it ready for walk over after 24 hours and ready for use in 7 days, guaranteeing easy and safe installation of floor and wall tiles. Indicated for indoor and outdoor civil, commercial and industrial applications.

## Application:

**Aquaria** must be mixed with 6.25 l of water every 25/24 kg bag with a low speed stirrer. Do not add other hydraulic binders or aggregates. Check that the substrate complies with norm EN 11493 point 7.3 as for the requirements of curing, integrity, surface sturdiness, dimensional regularity, residual humidity and rising damp. In very absorbing substrates, gypsum, anhydrite or with minor crumbling pre-treat with **Primer GS**. Apply **Aquaria** creating an adhesive layer of max. 10 mm, so as to coat the tile back side completely. Follow the norm EN 11493 point 7.9/7.11 for outdoor applications, in sizes with side  $\geq 60$  cm and in low thickness tiles. Apply a layer of adhesive also on the tile back side (backbuttering) in case of strong stresses or when required by the ceramic manufacturer. Create elastic expansion joints every 10 m<sup>2</sup> outdoors and every 25 m<sup>2</sup> indoors, every 4 m in sidewalks and skirting boards. In façade applications, comply with norm EN 11493 point 7.13.7 for evaluating the substrate, the installation and the use of anti-overturning hooks. The materials applied with Aquaria must be protected from the rain during the 6 hours following laying and must not be exposed to freezing temperatures or strong sunlight for at least 24h hours.

## Quality and Environmental Standards:

**Aquaria** undergoes constant, careful testing at our laboratories, in compliance with the legislation in force UNI EN ISO 9001/2015.

<b>Opera Srl</b> Via degli Scavi 19/21 47122 Forlì - Italy	
<b>DOP-IT-01-030</b> <b>AQUARIA GRIGIO</b> <b>EN 12004:2007+A1:2012</b>	
<small>Two-component, improved and rapid cement-based adhesive with limited slip, for indoor and outdoor tile application.</small>	
<small>Fire reaction</small>	<small>Class A1/A1 fl</small>
<small>Adhesion strength:</small>	$\geq 1.0$ N/mm <sup>2</sup>
<small>- Initial tensile adhesion</small>	$\geq 0.5$ N/mm <sup>2</sup>
<small>- Accelerated tensile adhesion</small>	
<small>Durability:</small>	$\geq 1.0$ N/mm <sup>2</sup>
<small>- Tensile adhesion after thermal ageing</small>	$\geq 1.0$ N/mm <sup>2</sup>
<small>- Tensile adhesion after immersion in water</small>	$\geq 1.0$ N/mm <sup>2</sup>
<small>- Tensile adhesion after frost-thaw cycles</small>	$\geq 1.0$ N/mm <sup>2</sup>
<small>Release of harmful substances:</small>	<small>See Safety data sheet</small>

## Characteristics

Two-component product  
Mixture water:  
1:1 component A+B  
Open time: > 20 minutes  
Waiting time for floor joint  
grouting: 3 hours  
Waiting time for wall joint  
grouting: 3 hours  
Frost-proof  
Rapid  
Walk over time: 3 hours  
Deformable: S2  
Ready for use:  
1 day - swimming-pool 5 days

## Application methods

Smooth or toothed trowel

## Consumption

2.5-5 kg/m<sup>2</sup>

## Storage

Shelf life of 12 months in the original packages and in a dry place

Code	Product	Form and Color	Packages	Pallet
105226	Aquaria	Part A: grey and white powder	31.25 (A+B) kg	1875 kg
105225	Aquaria	Part B: white latex	30.25 (A+B) kg	1815 kg

**Warning:**

- do not use with unstable marbles or reconstituted stone materials;
- do not apply directly on gypsum or anhydrite bases, use **Primer GS** beforehand;
- do not apply on metal, PVC, rubber or linoleum surfaces;
- do not use if an adhesive layer thicker than 10 mm is required.


**Technical and application specifications**

Hazard classification as per Directive 99/45/CE:	<b>grey: irritant - white/latex: none</b>
Mixing ratio:	<b>1 bag Aquaria/ 1 can Aquaria Part B</b>
Specific weight of mixture:	<b>1.60 g/cm<sup>3</sup></b>
Pot life:	<b>60-70 minutes</b>
Application temperature:	<b>from +5°C to +30°C</b>
Open time (according EN 1346):	<b>20 minutes</b>
Setting time:	<b>approx. 2 hours</b>
Joint sealant hardening time on walls:	<b>approx. 3 hours</b>
Joint sealant hardening time on floors:	<b>approx. 3 hours</b>
Walk-over time:	<b>3-4 hours</b>
Walk-over time:	<b>24 hours (5 days for swimming pools)</b>

**FINAL PERFORMANCES SPECIFICATIONS EN 1348 (N/mm<sup>2</sup>)**

Initial adhesion (after 28 gg):	<b>2.50 N/mm<sup>2</sup></b>
Adhesion after immersion in water:	<b>1.50 N/mm<sup>2</sup></b>
Adhesion after freeze-thaw cycles:	<b>1.90 N/mm<sup>2</sup></b>
Adhesion after heat action:	<b>2.50 N/mm<sup>2</sup></b>
Deformability according to EN 12002:	<b>S2 – highly deformable</b>
Acid resistance:	<b>poor</b>
Resistance to damp, solvents, oil, alkalis and ageing:	<b>excellent</b>
Temperature resistance:	<b>from -40°C to +90°C</b>
Harmonised customs code:	<b>38245090 (powder) - 40021100 (latex)</b>

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.