

YAYLA Porcelain Adhesive

Cement-based adhesive mortar with high adhesion strength, elasticity, reduced slippage, extended working time, and resistance to temperature changes, water, and frost. It is optimized for bonding porcelain tiles, slabs, and large-format materials with low water absorption, such as porcelain, ceramic, and natural stone.

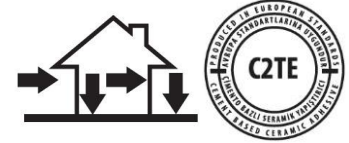


AREAS OF USE

YAYLA Porcelain Adhesive is suitable for bonding on sound, dust-free vertical and horizontal cement-based plaster, trowel coating, and primed concrete surfaces, as well as primed old tile-coated surfaces with low water absorption. Ideal for indoor and outdoor applications in high-traffic areas like hotels, schools, hospitals, and stores; on heated floors; in environments with high temperature variations; and on vibrating surfaces like metro stations or terminals. Also used for bonding on waterproofed surfaces and tile-on-tile applications with appropriate primer.

PRODUCT ADVANTAGES

- Ideal for large-format porcelain tiles and slabs.
- Provides high elasticity and adhesion strength due to polymer additives.
- Resistant to temperature changes, water, and frost.
- Extended open time for longer workability.
- Easy to prepare and apply.
- No slippage in vertical applications.



PERFORMANCE

Property	Value	Test Method
Initial tensile adhesion strength	$\geq 1 \text{ N/mm}^2$	EN 12004-2:2017, 8.3
Tensile adhesion strength after water immersion	$\geq 1 \text{ N/mm}^2$	EN 12004-2:2017, 8.3
Tensile adhesion strength after thermal aging	$\geq 1 \text{ N/mm}^2$	EN 12004-2:2017, 8.3
Tensile adhesion strength after freeze-thaw cycle	$\geq 1 \text{ N/mm}^2$	EN 12004-2:2017, 8.3
Tensile adhesion strength after open time (after 30 minutes)	$\geq 0.5 \text{ N/mm}^2$	EN 12004-2:2017, 8.1
Slip	$\leq 0.5 \text{ mm}$	EN 12004-2:2017, 8.2
Reaction to fire	A1	TS EN 13501-1

The foregoing values represent the results of laboratory tests conducted at $23 \pm 2^\circ\text{C}$ temperature and $50\% \pm 5$ relative humidity conditions. The values provided as per the table may vary depending on the surface and ambient conditions.

APPLICATION PROCEDURE

- The application surface should be dry, clean, sound, and dust-free, cleansed of oil, dirt, or any materials that may prevent adhesion. Mortar and cement residues should be scraped.
- Dusty reverse side of tiles should be moistened and cleaned.
- Surface defects deeper than 1 cm should be repaired 6-8 hours in advance. Use structural repair mortar if needed.

- Apply primer in a single coat and allow 1-2 hours to dry for enhanced bonding.
- For exposed concrete, apply exposed concrete primer and dry for minimum 3 hours.
- For tile-on-tile, apply viscosity primer and dry for minimum 3 hours.
- For wet areas, apply waterproofing on primed surface before tiling.

Mixing Ratio

- The product should be mixed with water, weighing equal to 22 - 26 % of the product.
(5,5 - 6.5 liters of water for a 25 kg package)

Mixing Equipment

- Low speed electrical mixer (400 cycles/ min.)
- Special tip stirring equipment

Mixing Period

- Should be mixed with the help of a low-speed mixer, with no dry powder and lumps are left for 3-5 minutes. The mortar should, then, be mixed once again for 1 to 2 minutes after being had settled for 3 to 5 minutes following preparation.

Application Methods

- Apply with notched trowel based on tile size and surface condition.
- Avoid film formation on the surface; scrape off if formed.
- Place tile and ensure settlement with rubber hammer.
- Application thickness should not exceed 10 mm.
- Use leveling systems for large tiles.
- Start joint filling minimum 24 hours after adhesion.
- For tiles >33x33 cm, apply double-sided adhesion.
- Leave 3 mm joint gaps for coatings $\geq 1800 \text{ cm}^2$.
- In outdoor vertical applications, adhere up to specified heights based on tile size.
- Leave 10 mm expansion joints every 8 meters and fill with mastic.
- Recommended notch sizes as per tile dimensions.

Application Recommendations

- Use white color for light-colored tiles.
- Use within pot life; do not use expired mortar.
- Do not add foreign substances or extra water.
- Do not apply on unsound surfaces.
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Surface and Ambient Temperature

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

Application Limits

Parameter	Value
Pot life	Maximum 4 hours
Open time	Maximum 30 minutes
Adjustment time	20 minutes
Time for joint filling	24 hours
Time for traffic	24 - 48 hours

The foregoing values represent the results of laboratory tests conducted at $23 \pm 2^{\circ}\text{C}$ temperature and $50\% \pm 5$ relative humidity conditions. The values provided as per the table may vary depending on the surface and ambient conditions.

TECHNICAL PROPERTIES

Chemical Structure: Cement-based tile adhesive mortar with polymer additive

Dry Density: $1.35 \pm 0.05 \text{ g/cm}^3$ **Mortar Density:** $1.74 \pm 0.05 \text{ g/cm}^3$

Color: Gray, white **Temperature Resistance:** -15°C to $+80^{\circ}\text{C}$

CONSUMPTION

The amount of consumption varies according to the condition of the application surface, the application method and notch size.

Ceramic Tile Size	Notch Size	Consumption
10x10 cm to 10x15 cm or smaller	6x6x6	Single side adhesion: $4.0 - 4.75 \text{ kg/m}^2$ Double side adhesion: $5.5 - 6.5 \text{ kg/m}^2$
10x15 to 25x40 cm or 10x15 to 33x33 cm	8x8x8	Single side adhesion: $4.5 - 5.5 \text{ kg/m}^2$ Double side adhesion: $6.0 - 7.0 \text{ kg/m}^2$
25x40 to 33x33 cm or larger	10x10x10	Single side adhesion: $5.0 - 6.0 \text{ kg/m}^2$ Double side adhesion: $6.5 - 8.0 \text{ kg/m}^2$

PACKAGING

YAYLA Porcelain Adhesive is delivered in net 25 kg kraft bags, stowed 48 pcs on a 100 cm x 100 cm pallet (1200 kg).

SHELF LIFE

The shelf life of the product is 12 months when stored in untampered original packaging in a dry (maximum relative humidity 60%) and cool (ambient temperature between $+5^{\circ}\text{C}$ and $+25^{\circ}\text{C}$) environment.

STORAGE CONDITIONS

- The product should be stored in untampered original packaging in a dry (maximum relative humidity 60%) and cool (ambient temperature between $+5^{\circ}\text{C}$ and $+25^{\circ}\text{C}$) environment.
- It should not be exposed to direct sunlight.

