

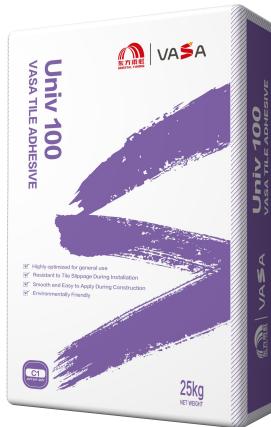


## VASA® Tile Adhesive Univ 100 Universal Standard

### Product Manual

#### DESCRIPTION

VASA Tile Adhesive Univ 100 (Universal Standard) uses high-quality cement as the inorganic cementing material, refined graded sand as the aggregate, and is formulated with a variety of polymers and functional additives. It is suitable for laying all kinds of tiles and has strong versatility.



#### WHERE TO USE

Suitable for the installation of ceramic tiles with a water absorption rate greater than 0.2% on stable indoor and outdoor walls and floors in buildings. The specific application scope is as follows:

Interior Applications			Exterior Applications		
Suitable Substrate	Suitable Tiles	Suitable Tile Size	Suitable Substrate	Suitable Tiles	Suitable Tile Size
Stable substrates such as cement mortar, concrete, brick walls, etc.	High water absorption tiles (water absorption rate > 3%)	≤600×600 mm	Stable substrates such as cement mortar, concrete, brick walls, etc.	High water absorption tiles (water absorption rate > 3%)	≤300mm×300mm
	Low water absorption tiles (water absorption rate 0.2~3%)	≤300mm×600mm		Low water absorption tiles (water absorption rate 0.2~3%)	≤100mm×200mm

#### FEATURES AND BENEFITS

- Strong commonality
- High bonding strength
- Smooth and easy to apply during construction
- Environmentally friendly

#### PRODUCT INFORMATION

The product complies with the standard requirements of EN 12004-2 C1. The main indicators are as follows:

No.	Test Item	Technical Specification
1	Tensile Adhesion Strength / MPa	≥0.5
2	Tensile Adhesion Strength after Immersion / MPa	≥0.5
3	Tensile Adhesion Strength after Heat Aging / MPa	≥0.5

4	Tensile Adhesion Strength after Freeze-Thaw Cycle / MPa	≥0.5
5	Tensile Adhesion Strength after Airing for ≥20min / MPa	≥0.5

## APPLICATION PROCEDURE

### Preparation and Tools

Inspect the back of the tile for the presence of mold release agent or any other impurities that may affect tile adhesion. Ensure thorough cleaning. Prepare the following tools: electric mixer, mixing bucket, measuring cup, notched trowel, trowel, rubber mallet, level ruler, tape measure, chalk line box or laser level, tile cutter, sponge, tile spacers, and other necessary equipment.

### Construction Process

#### ● Substrate Treatment

The substrate must be solid, clean, free from oil, grease, wax stains, concrete curing agents, and other loose materials. The flatness of the substrate should not exceed 3mm/2 m.

#### ● Adhesive Preparation

Follow the water mixing ratio indicated on the label.

Start by adding water to the mixing bucket, then gradually incorporate the powder while stirring with an electric mixer. Mix until a consistent and lump-free texture is achieved. Allow the mixture to rest for 3-5 minutes, then re-stir for 15-30 seconds. The prepared tile adhesive should be used within 2 hours.

#### ● Tile Paving

Using a trowel, spread a thin but robust layer of tile adhesive onto the substrate's surface. Subsequently, apply a thicker layer of adhesive and utilize an appropriate notched trowel to comb through the tile adhesive layer. In adverse weather conditions (such as high temperatures, strong winds, etc.) or when the substrate exhibits high water absorption, tiles should be promptly installed. Before tiling, assess the tile adhesive's dryness by touching its surface with your finger. If the adhesive is still wet, tiles can be applied. However, if the adhesive is dry, reapplication is necessary. The depth of the notched trowel's teeth should be adjusted considering the levelness of the working surface and the variations in the tile back.

If the gaps on the back of the tile are substantial or if the tile size is equal to or greater than 300\*300mm, the combination method should be employed for installation. This entails applying tile adhesive to both the substrate and the back of the tile, followed by combing, laying, and kneading the tile onto the adhesive layer.

#### ● Application Guide



## TECNICAL INFOMATION

Product Technical Parameters	Packing Specification	25kg
	Character	Gray powder
	Executive Standard	EN 12004-2 C1
	Shelf life	12 months when stored unopened in a cool, dry place.
Construction Technical Parameters	Airing Time	20 min
	Operable Time	2h
	Jointing Time	24h (20~35°C) 2~3d (5~20°C)
	Construction Consumption	Working temperature 5°C~35°C. Outdoor construction should be avoided in high temperature, frost, direct sunlight, or windy rainy weather.
	Reference Dosage	1.5kg/m <sup>2</sup> /mm Actual consumption depends on the flatness of the base and the construction method

## CAUTIONS

- Construction environment temperature should be between 5°C and 35°C. Avoid construction in rainy, high-temperature, frost, or windy weather with wind above grade 5.
- Tiles do not need to be soaked in water during pasting, but it is essential to thoroughly remove the release agent from the back of the tiles.
- It is strictly forbidden to mix other materials with tile adhesive during use.
- Construction should be carried out using the combination method. When spreading, apply adhesive to both surfaces. Ensure that the angle between the trowel and the substrate is approximately 60 degrees, leaving a gap of no less than 2mm between the tiles.
- After laying the tiles, filling work can only be carried out after the tile adhesive has completely cured.

## TRANSPORTATION AND STORAGE

- Handle with care during transportation to prevent exposure to rain and impact that may damage



the packaging.

- Ensure proper storage by keeping the product in a cool and dry warehouse, away from moisture. It is crucial to prevent exposure to direct sunlight and any contact with water.
- Under standard transport and storage conditions, the product has a shelf life of 12 months.

#### **SAFETY INSTRUCTIONS**

This product contains cement and other alkaline materials that can harm the eyes and skin. Wear necessary protective gear during construction. In case of accidental contact with eyes, rinse immediately with water and seek medical attention. Keep out of reach of children.

#### **REMINDER**

The stretch wrap and bottom wooden pallet provided at the factory will better protect the product from water, dust, and moisture, as well as protect the packaging. Please do not damage them before use! (Stretch wrap and wooden pallets are not provided for small quantities).

#### **WARNING**

The technical information and recommendations presented in this report are founded on our utmost knowledge and expertise. However, it's important to recognize that all the aforementioned details serve as guidance and should be validated through extensive real-world application. As such, individuals intending to utilize the product must conduct thorough assessments of its compatibility with the specific intended use. It is paramount to emphasize that the user assumes sole accountability for any ramifications arising from the product's utilization.

#### **LEGAL NOTICE**

The information within this Technical Data Sheet ("TDS") can be transferred to another document relevant to the project. However, the resulting document must not supersede or substitute the requirements specified in the current TDS during the installation of VASA products. The latest version of the TDS is available for download from our website [www.vasa.top](http://www.vasa.top).

ANY MODIFICATION TO THE TEXT OR REQUIREMENTS INCLUDED OR DERIVED FROM THIS TDS RELEASES VASA FROM LIABILITY.