



VASA® Tile Adhesive TA-S116 High-performance Flexible Product Manual

DESCRIPTION

VASA® Tile Adhesive TA-S116 High-performance Flexible is a powdered environmentally friendly high-flexibility ceramic tile adhesive made from high-quality cement and inorganic cementing materials, refined sand as aggregate, and various multifunctional additives. It is particularly suitable for the installation of large-size tiles and tiles on substrates with significant deformation. It features excellent flexibility, high bonding strength, and convenient application.



WHERE TO USE

Interior Applications		Exterior Applications	
Suitable Substrate	Suitable Tile Size	Suitable Substrate	Suitable Tile Size
Stable substrates such as cement mortar and concrete	≤1600×3200mm	Stable substrates such as cement mortar and concrete	≤600×1200mm
Highly deformable substrates	≤ 900×1800mm	Highly deformable substrates	≤300×300mm

When tiling ceramic large slabs (thickness ≤ 12mm) with a surface area >1.62 m² and a long edge > 1500mm, especially in specific scenarios such as elevator shafts with significant deformation or extremely large slabs, mechanical fixing brackets need to be used in conjunction with the installation process.

FEATURES AND BENEFITS

- Deformable
- High adhesion performance
- Suitable for every kind of tile including large format porcelain
- No vertical slip

PRODUCT INFORMATION

The product complies with the standard requirements of C2TES1 in EN12004 classification. The main indicators are as follows:

No.	Test Item	Technical Specification
1	Tensile Adhesion Strength / MPa	≥1.0
2	Tensile Adhesion Strength after Immersion / MPa	≥1.0
3	Tensile Adhesion Strength after Heat Aging / MPa	≥1.0
4	Tensile Adhesion Strength after Freeze-Thaw Cycle / MPa	≥1.0

5	Tensile Adhesion Strength after Airing for $\geq 30\text{min}$ / MPa	≥ 0.5
6	Slip / mm	≤ 0.5
7	Lateral deformation/mm	$\geq 2.5, < 5$

APPLICATION PROCEDURE

Substrate Treatment

The substrate should be solid, clean, free of oil, wax, concrete curing agents, and other loose materials; the flatness should be $\leq 3\text{mm}/2\text{m}$.

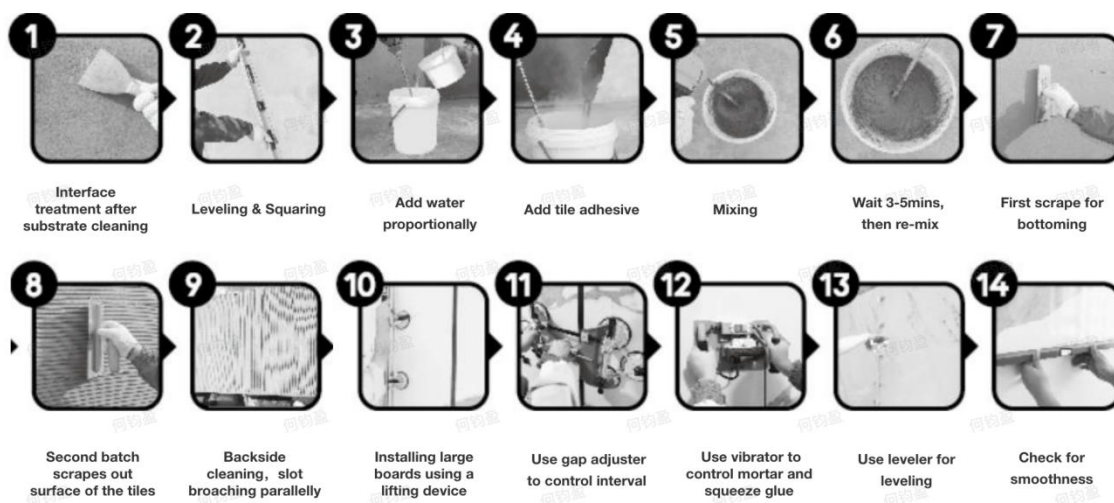
Adhesive Preparation

- Refer to the certificate for the correct water addition amount.
- Add the appropriate amount of water to the mixing bucket first, then gradually add the powder while stirring with an electric mixer until a uniform, lump-free paste is formed. Let it sit for 3-5 minutes, then stir again for 15-30 seconds before use. The mixed adhesive must be used within 2 hours.

Tile Paving

- Using a trowel, evenly spread a thin but strong layer of tile adhesive onto the substrate. Following that, apply a thicker coat of adhesive and then use an appropriately sized notched trowel to comb through the tile adhesive layer. 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.
- For tiles with deep grooves on the back or sizes $\geq 300\text{x}300\text{mm}$, use the combined method: apply adhesive to both the substrate and the tile back before pressing the tile into place.

Application Guide





TECNICAL INFOMATION

Product Technical Parameters	Packing Specification	25kg/bag
	Character	Gray powder
	Executive Standard	EN12004 C2TES1
	Shelf life	12 months when stored unopened in a cool, dry place.
Construction Technical Parameter	Reference Dosage	1.5kg/ m ² /mm Actual consumption depends on the flatness of the base and the construction method

CAUTIONS

- Construction environment temperature should be 5-35°C; avoid construction in rain, high temperature, strong wind, or frost.
- No need to soak the tiles before installation, but clean the back of the tiles from release agents.
- Do not add other materials to the adhesive.
- Use the combined method with a 60-degree angle between the trowel and the substrate; keep a gap of no less than 2mm between tiles.
- After paving the tiles, filling work can only be carried out after the tile adhesive has completely cured.

TRANSPORTATION AND STORAGE

- Avoid rain and impact during transportation to prevent damage.
- Store in a cool, dry warehouse, protected from moisture and water.
- Under normal transport and storage conditions, the shelf life is 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.

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