OYH AUSTRALIA

TECHNICAL DATA SHEET

VASA™ Tile Adhesive Flex HP 230

High-Performance Flexible Tile Adhesive

Product Description

VASA™ Tile Adhesive Flex HP 230 is a high-performance, flexible, cement-based tile adhesive supplied in powder form. It is manufactured using high-quality cement, inorganic binding materials, refined sand aggregates and multifunctional additives.

The product is designed for the installation of large-format tiles and tiles installed over substrates where moderate movement or deformation may occur. It offers excellent flexibility, strong bonding performance and smooth workability, making it suitable for a wide range of residential, commercial and project applications.



Key Features

- **Australian Standard AS ISO 13007 C2TE S1 classification**
- **High-performance flexible tile adhesive**
- **Strong bonding strength**
- **Suitable for large-format tiles**
- **Suitable for stable substrates and selected deformable substrates**
- **Crack-resistant and movement-tolerant**
- **Easy to mix and apply**
- **Suitable for indoor and outdoor applications, subject to correct substrate preparation and installation method**

Product Information

Item	Specification
Product Name	VASA™ Tile Adhesive Flex HP 230
Type	High-performance flexible tile adhesive
Appearance	Grey powder
Packaging	20 kg bag
Standard	AS ISO 13007 C2TE S1
Shelf Life	12 months when stored unopened in a cool, dry place

Working Temperature	**5°C to 35°C**
Reference Consumption	**Approx. 1.5 kg/m²/mm**
Colour	**Grey**

Applications

VASA™ Tile Adhesive Flex HP 230 is suitable for bonding ceramic tiles and large-format slabs to stable mineral substrates such as cement mortar, concrete and brick walls.

Indoor Applications

Substrate Type	Recommended Tile Size
Stable substrates such as cement mortar, concrete and brick walls	Small - Large tiles
Substrates with significant deformation	Small-large tiles

Outdoor Applications

Substrate Type	Recommended Tile Size
Stable substrates such as cement mortar, concrete and brick walls	Small-large tiles
Substrates with significant deformation	Small- medium tiles

For the installation of large ceramic slabs with a thickness of up to 12 mm, a surface area greater than 1.62 m², or a long edge greater than 1500 mm, additional mechanical fixing brackets may be required, particularly in areas subject to significant movement or deformation.

Technical Classification

VASA™ Tile Adhesive Flex HP 230 complies with the requirements of AS ISO 13007 C2TE S1 classification.

Technical Performance

No.	Test Item	Technical Specification
1	Tensile adhesion strength	≥ 1.0 MPa
2	Tensile adhesion strength after water immersion	≥ 1.0 MPa
3	Tensile adhesion strength after heat ageing	≥ 1.0 MPa
4	Tensile adhesion strength after freeze-thaw cycle	≥ 1.0 MPa
5	Tensile adhesion strength after open time of 30 minutes	≥ 0.5 MPa
6	Slip resistance	≤ 0.5 mm
7	Lateral deformation	≥ 2.5 mm and < 5 mm

Actual consumption may vary depending on substrate flatness, tile size, trowel size and installation method.

Construction Tools

Recommended tools include: electric mixer, mixing bucket, measuring cup, notched trowel, flat trowel, rubber mallet, level, tape measure, chalk line or laser level, tile cutter, sponge, tile spacers and other standard tiling tools.

Substrate Preparation

Before installation, inspect the back of the tile and remove any mould release agent, dust or impurities that may affect adhesion.

The substrate must be:

- Solid and structurally sound
- Clean and free from dust, oil, grease, wax, curing agents and loose materials
- Flat and suitable for tiling
- Free from contaminants that may reduce adhesion

Substrate flatness should not exceed 3 mm over a 2 metre span.

Mixing Instructions

1. Add clean water into a mixing bucket according to the water ratio stated on the product packaging.
2. Gradually add the powder while mixing with an electric mixer.
3. Mix until a smooth, consistent and lump-free paste is achieved.
4. Allow the mixture to stand for 3 to 5 minutes.
5. Re-mix for 15 to 30 seconds before use.

The prepared adhesive should be used within approximately 2 hours.

Tile Installation

Apply a thin, firm layer of adhesive onto the substrate using the flat side of the trowel. Then apply an additional layer and comb the adhesive using a suitable notched trowel.

For tiles with large back ribs, uneven backs or tile sizes equal to or greater than 300 × 300 mm, the combined installation method is recommended. This means adhesive should be applied to both the substrate and the back of the tile before placing the tile into position.

During installation:

- Keep the trowel at approximately a 60-degree angle to the substrate.
- Select the correct notch size according to tile size and substrate condition.
- Place tiles while the adhesive remains fresh and workable.
- If the adhesive surface becomes dry or skinned, remove and reapply fresh adhesive.
- Maintain a minimum joint width of 2 mm between tiles.
- Do not soak tiles in water before installation.

In hot, windy or highly absorbent conditions, tiles should be installed promptly after the adhesive has been applied.

Cleaning

Clean tools and tile surfaces with water while the adhesive is still fresh. Hardened adhesive must be removed mechanically.

Protection After Installation

Do not disturb the tiles, allow foot traffic or commence grouting for at least 24 to 48 hours after installation.

Condition	Minimum Protection Time
Light traffic / grouting	24 to 48 hours
General traffic	72 hours
Heavy traffic	7 days
Rain exposure	72 hours
Freezing conditions	21 days
Water immersion	28 days curing required

Important Cautions

- Apply only when the ambient and substrate temperature is between 5°C and 35°C.
- Avoid installation in rain, frost, direct sunlight, high temperatures, strong wind or severe weather conditions.
- Do not mix the adhesive with any other materials.
- Do not use the product once it has started to harden.
- Remove all release agents and contaminants from the back of tiles before installation.
- For large-format tiles, use the combined installation method by applying adhesive to both the substrate and the back of the tile.
- Grouting should only be carried out after the tile adhesive has sufficiently cured.
- Store the product in a dry, well-ventilated area and protect it from moisture and water contact.

Transportation and Storage

Handle with care during transportation to avoid impact, rain exposure or damage to the packaging.

Store the product in a cool, dry and well-ventilated warehouse. Keep away from moisture, direct sunlight and water contact.

Under correct transport and storage conditions, the product has a shelf life of 12 months from the date of manufacture.

Contact Details

For sales enquiries and product support, please contact OYH Australia:

Location	Email	Telephone
NSW Sales	nsw@oyhaustralia.com.au	02 9909 6010
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Disclaimer and Legal Notice

The information provided in this Technical Data Sheet is based on the manufacturer’s current knowledge and technical experience. It is intended as general guidance only.

TECHNICAL DATA SHEET

As site conditions, substrates, installation methods and project requirements may vary, users must assess the suitability of the product for the intended application before use.

The user is responsible for ensuring correct product selection, installation method and compliance with relevant project requirements and local standards.

Please refer to the latest version of the Technical Data Sheet and Safety Data Sheet before use.

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