



## VASA® Waterproofing 2C301 Polymer Waterproofing Coating Product Manual

### DESCRIPTION

VASA Waterproofing 2C301 is a two-component polymer cement waterproofing coating designed for fine decoration projects. It uses imported high-quality acrylic emulsion as the base material, combined with inorganic cementitious materials such as cement. After mixing the liquid and powder components in a certain ratio and stirring evenly, the coating is applied to the substrate, forming a film with strong adhesion, high flexibility, good crack resistance, and excellent waterproofing performance.

### WHERE TO USE

- waterproofing and moisture-proofing in bathrooms, kitchens, balconies, underfloor heating systems, and non-exposed roofs.
- can be used as one of the multiple waterproofing layers on concrete roofs, requiring a cement mortar protective layer after the waterproofing construction is completed, and should not be exposed.

### FEATURES AND BENEFITS

- Good flexibility, capable of covering fine cracks and minor displacements, especially suitable for new house decoration.
- Good temperature resistance, suitable for underfloor heating systems.
- High bonding strength with the substrate and surface layer.
- Good wet adhesion, easy-to-use.

### PRODUCT INFORMATION

The product complies with the requirements outlined in JC/T 984-2011 "Polymer Cement Waterproofing Mortar." Specific technical indicators are as follows:

NO.	ITEM		Tecnical Indicator	
			Type Ⅱ	
1	Solid Content		%	≥70
2	Tensile Strength	Without treatment	MPa	≥1.8
		Heat treatment retention rate	%	≥80
		Alkali treatment retention rate	%	≥70
		Water immersion treatment rate	%	≥70
3	Elongation	Without treatment	%	≥80
		Heat treatment retention rate	%	≥65
		Alkali treatment retention rate	%	≥65
		Water immersion treatment rate	%	≥65
4	Bonding Strength	Without treatment	MPa	≥0.7
		Heat treatment retention rate	MPa	≥0.7
		Alkali treatment retention rate	MPa	≥0.7
		Water immersion treatment rate	MPa	≥0.7
5	Waterproofness (0.3MPa,30min)		Water Resisting	
6	Impermeability(Mortar Reverse Side)		MPa	≥0.6

## APPLICATION PROCEDURE

### Construction Tools

Electric mixer, mixing bucket, brush or roller, masking tape, mesh fabric, tape measure, chalk line box or laser level, etc.

### Construction Process

#### ● Substrate Treatment

The substrate should be flat, solid, free of visible water, sharp protrusions, honeycombs, pockmarks, and peeling. It should be free of oil stains. Use leak-stopping mortar to smooth corners. Seal and smooth cracks, substrate deformation joints, reserved grooves around pipes, wall grooves, and pits. If the substrate is loose and highly absorbent, use a primer to seal it.

#### ● Detail Attachment Waterproof Layer Construction

Before large-area waterproof construction, reinforce corners, pipe roots, floor drains, drainage outlets, and equipment foundations. First, apply a coat of waterproof coating with a brush, then lay the mesh fabric reinforcement layer, and apply another coat of waterproof coating (single coat thickness should not exceed 1mm). Ensure the mesh fabric reinforcement is fully saturated, and the thickness and width of the reinforcement layer meet design requirements.

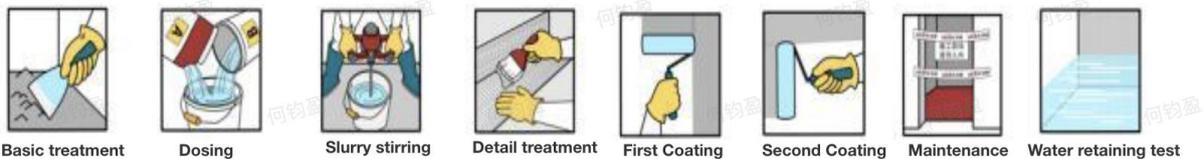
#### ● Large Area Waterproofing Membrane Construction

Apply in multiple coats. After the first thin coat dries (about 6-8 hours), apply the second coat perpendicular to the first. After the second coat dries (about 6-8 hours), apply the third coat perpendicular to the second. Apply an additional coat at corners and pipe roots. Ensure the waterproof membrane is fully coated, uniform, and without omissions. Suitable thickness for bathroom walls is  $\geq 1.2\text{mm}$ , and for floors is  $\geq 1.5\text{mm}$ . After 48 hours, when the waterproof layer is completely dry (extend drying time in low temperature or poorly ventilated environments), conduct a water immersion test.

#### ● Acceptance check

Conduct water immersion tests in areas like kitchens and bathrooms: Seal the doorway and drain, maintain a water depth of no less than 20mm at the highest point, and conduct the test for no more than 48 hours. Check for leaks to confirm quality.

#### ● Application Guide



## TECNICAL INFOMATION

Product Name	VASA Waterproofing 2C301
Product Model	J260
Character	Milky liquid material+ gray powder
Packing Specification	16kg/ barrel of liquid material +24kg/ bag of powder material 1 barrel of liquid + 1 bags of powder constitutes a set
Mixing Ratio	Liquid: Powder = 10:15 (weight ratio)
Executive Standard	GB/T 23445-2009 Type Ⅱ
Shelf Life	12 months
Operable Time	1h

Operable Temperature	5-35°C
----------------------	--------

## Recommended Usage

Theoretical usage is 1.8kg/m<sup>2</sup>/mm - 2.2kg/m<sup>2</sup>/mm. Actual usage depends on the flatness of the substrate and the thickness of the coating.

## CAUTIONS

- Construction environment temperature should be between 5°C and 35°C. Avoid outdoor construction in high temperatures, frost, direct sunlight, windy, or rainy conditions.
- Must use an electric mixer for mixing.
- Prepared coating should be used within 1 hour, do not add water or other materials during the use period from slurry preparation to application.
- Protect the waterproof membrane from damage during construction.

## Transportation and Storage

- The product is non-toxic and non-flammable. Transportation and storage can be handled as non-dangerous goods.
- Avoid sun exposure, rain, moisture, freezing, and collisions during transportation and storage.
- Seal the container if the liquid or powder components are not fully used and use promptly.
- Store the liquid component at a temperature not lower than 5°C. Prevent the powder component from moisture and water contact.
- Under normal transportation and storage conditions, the unopened 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.

## DECLARATION

The use of this product is beyond the manufacturer's control. The company does not assume any responsibility for any loss caused by improper use. Please follow the instructions in the manual during construction. For any questions, please consult local distributors or the company's technical service personnel.

## 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.

# VASA Material Safety Data Sheet (MSDS)

## I. Chemical identification

Name: VASA® Waterproofing 2C301 Polymer Waterproofing Coating

Usage: For bathroom, kitchen, balcony, floor heating, non-exposed roof waterproof, moisture-proof; It is also suitable for one of the multi-channel waterproofing of the concrete roof. At this time, the protective layer of cement mortar should be made after the waterproof construction is completed, and it should not be exposed.

## II. Composition information on ingredients

This product is a mixture.

Substance name	CAS No.	Content%
Acrylic emulsion	25085-34-1	30-50
Ordinary portland cement	65997-15-1	10-30
Limestone	1317-65-3	25-40
Water	7732-18-5	1-10

See Clause 16 for more information.

## III. Hazards overview

According to regulations, it is not classified as hazardous chemical.

Health hazards: Invasion routes: Inhalation, ingestion, skin and eye contact.

Hazard description: When the substance containing cement is mixed with water or damp, it will produce a strong alkalinity, which will cause severe burns to the eyes, skin burns and ulcers. Strong alkaline solutions, when in contact with the skin, can destroy nerve endings before injuring the skin, resulting in a chemical burn before pain is felt. Substances containing cement may cause irritation and allergic dermatitis until set.

## IV. First aid measures

In case of any doubt or if symptoms persist, seek medical advice.

Skin contact: Remove contaminated clothing, wash skin with soap and water, or wash with personal skin cleanser. Never use solvents or thinners. Seek medical help if symptoms persist.

Eye contact: In case of eye contact, immediately separate the eyelids, rinse thoroughly with running water or saline for at least 15 minutes, and seek medical attention immediately.

Ingestion:

VASA TECH HOLDINGS PTE. LTD.

Address: 112 Robinson Rd, #03-01, Singapore 068902

Website: <http://vasa.top/>

Telephone: 400-685-0885



If accidentally swallowed, never induce vomiting, but keep at rest and seek medical advice.

Inhalation: Immediately move to fresh air and keep airway open. If breathing is irregular or stopped, perform CPR and seek medical attention immediately.

---

---

## V. Fire-fighting measures

---

Hazardous characteristics: Not classified

Decomposition products: No data.

Flammability class: Non-combustible

Upper flammability limit (UFL): Not applicable

Fire and explosion hazards: Do not burn or explode

Lower flammability limit (LFL): Not applicable

Fire extinguishing method and fire extinguishing agent: Use fire extinguishing media suitable for the fire scene.

Precautions for fire fighting: Firefighters should wear a full set of protective clothing including a ventilator.

---

---

## VI. Accidental release measures

---

Emergency treatment: It is recommended that emergency personnel wear dust masks (full face masks) and general work clothes; refer to Part VIII.

Methods for elimination: Use dry sweeping tools to collect all inert material, avoid raising dust and avoid contact with water. If the material is free from other contamination, it can continue to be used. Collect the material with a shovel or suitable tools into suitable containers for unified disposal. Dispose of collections in accordance with laws and regulations. Because this product undergoes hydration reaction with water to form hard solids, it should be prevented from directly entering the sewer to prevent clogging.

---

---

## VII. Handling and storage

---

Precautions for operation: Physically clean up after handling, then rinse thoroughly with water.

Precautions for storage: Store in a cool, ventilated warehouse, protect against moisture and rain, and keep the package tightly sealed.

---

---

## VIII. Exposure controls/personal protection

---

Engineering controls: Maintain good ventilation

Respiratory system protection: Wear a face mask and choose an appropriate respirator; regularly check the respiratory system, lung function and skin

Eye protection: Wear goggles

Body protection: Wear protective clothing, avoid repeated or long-term skin contact, work clothes should be changed every day

Other protection: It is recommended to install eyewash and emergency shower

### VASA TECH HOLDINGS PTE. LTD.

Address: 112 Robinson Rd, #03-01, Singapore 068902

Website: <http://vasa.top/>

Telephone: 400-685-0885



---

---

## IX. Physical and chemical properties

---

Appearance and properties:	Two-component, white liquid and grey powder		
pH value:	5-6	Critical temperature (°C):	No data
Melting point (°C):	No data	Critical pressure (MPa):	No data
Boiling point (°C):	100-105°C	Log value of octanol/water partition coefficient:	No data
Relative density (water=1):	1.0-1.2	Flash point (°C):	不适用 Not applicable
Relative vapor density (air=1):	Non-combustible	Ignition temperature (°C):	Non-combustible
Saturated vapor pressure (kPa):	Non-combustible	Upper explosion limit % (V/V):	Not applicable
Heat of combustion (kJ/mol):	No data	Lower explosion limit % (V/V):	Not applicable
Solubility:	Unsoluble in water	Other physical and chemical properties:	No data

---

---

---

## X. Stability and reactivity

---

Stability: Generally stable, keep dry before use

Conditions to Avoid: Water, contact with water will cause hydration

Incompatible materials: Acid, ammonia salt, steel

Polymerization hazard: None

Decomposition products: None

---

---

## XI. Toxicological information

---

Acute toxicity:	None
Subacute and chronic toxicity:	None
Irritation:	No data
Allergy:	No data
Mutagenicity:	No data
Teratogenicity:	No data
Carcinogenicity:	No data
Other:	No data

---

---

## XII. Ecological Information

---

Ecotoxicity: No danger to the environment

Environmental stability: When in contact with water, it reacts with water to form a solid substance

Bioaccumulation: Deposition in soil

**VASA TECH HOLDINGS PTE. LTD.**

Address: 112 Robinson Rd, #03-01, Singapore 068902

Website: <http://vasa.top/>

Telephone: 400-685-0885



Website QR code

---

---

### **XIII. Disposal considerations**

---

Waste nature: Hazardous waste Industrial solid waste

Disposal methods: Materials and packaging are recycled or disposed of in accordance with existing national and local regulations.

---

---

### **XIV. Transport information**

---

Road and rail transport class: Not classified as dangerous

Shipping classification: Not classified as dangerous

Air classification: Not classified as dangerous

Packing method: bag

Packing category: Class III

Shipping classification may vary depending on container volume and national or regional regulations.

---

---

### **XV. Regulatory information**

---

Within the scope of current laws and regulations, such products are not within the scope of risk management.

---

---

### **XVI. Other information**

---

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.

**VASA TECH HOLDINGS PTE. LTD.**

Address: 112 Robinson Rd, #03-01, Singapore 068902

Website: <http://vasa.top/>

Telephone: 400-685-0885



Website QR code