



VASA® Waterproofing 2C100 Polymer Waterproofing Mortar Product Manual

DESCRIPTION

VASA Waterproofing 2C100 is a two-component polymer waterproofing mortar composed of powder and liquid components. The powder consists of high-quality cement, refined sand, fillers, and various additives. The liquid component is made of acrylic emulsion and additives. It is characterized by excellent impermeability, non-toxic, harmless, and environmentally friendly properties.

WHERE TO USE

- Waterproofing and seepage control of building exterior walls
- Waterproofing of underground structures (e.g., pile heads, garages, tunnels)

FEATURES AND BENEFITS

- Suitable for both positive and negative water pressure surfaces
- Excellent impermeability
- Firm adhesion to the substrate, does not fall off, and can be applied on wet substrates
- Non-toxic, harmless, environmentally friendly, and easy to apply

PRODUCT INFORMATION

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

ITEM			Data
Setting Time		Initial setting/min, ≥	45
		Final setting/h, ≤	24
Impermeability Pressure/MPa	Coating specimen, ≥	7d	0.4
	Mortar specimen, ≥	7d	0.8
		28d	1.5
Compressive Strength/MPa, ≥			18.0
Flexural Strength/MPa, ≥			6.0
Flexibility (Transverse Deformation Capacity)/mm, ≥			1.0
Bond Strength/MPa, ≥		7d	0.8
		28d	1.0
Alkali Resistance			No cracking, peeling
Heat Resistance			No cracking, peeling
Frost Resistance			No cracking, peeling
Shrinkage Rate/%, ≤			0.30
Water Absorption Rate/%, ≤			6.0

APPLICATION PROCEDURE

● Substrate Treatment

Thoroughly clean the substrate to remove dust and oil. Remove protruding and loose parts and repair damaged



areas with quick-setting mortar. Wet the substrate thoroughly with clean water, but no standing water should remain.

● Preparation of Mortar

The mixing ratio of the product is liquid: powder = 4:20 (mass ratio). Add the liquid component into the mixing bucket first, then add the powder component, and mix quickly and evenly with a mechanical stirrer. The prepared mortar must be used within 45 minutes, and no additional water should be added during use.

● Application of Mortar

Building Exterior Walls: Typically, the application thickness is 5mm to 8mm.

- Apply the evenly mixed mortar in 2 to 3 layers according to the flatness of the wall, with a total thickness of 5mm to 8mm. Press and smooth the final layer.
- Apply the second layer after the first layer of polymer waterproof mortar hardens, and so on.
- After completing the final layer, maintain the surface for at least 7 days after it hardens.

Underground Waterproofing: Typically, the application thickness is 6mm to 12mm.

- Apply the evenly mixed polymer waterproof mortar in 2 to 3 layers, with each layer thickness between 2mm and 4mm. Press and smooth the final layer.
- Apply the second layer after the first layer of polymer waterproof mortar hardens, and so on.
- After completing the final layer, maintain the surface for at least 7 days after it hardens.

TECHNICAL INFORMATION

Product Technical Parameters	Packing Specification	8kg/ barrel of liquid material +20kg/ bag of powder material 1 barrel of liquid + 2 bags of powder constitutes a set
	Character	Milky liquid material + gray powder material
	Executive Standard	JC/T984-2011 "Polymer Cement Waterproof Mortar" Type I
	Shelf Life	12 months when stored unopened in a cool, dry place.
	Mixing Ratio	Liquid: Powder = 1:5 (weight ratio)
Construction Technical Parameters	Operable Time	45min
	Operable Environment	Temperature 5-35°C. Avoid construction in rainy, windy (above grade 5)
	Consumption	2.0kg/m ² /mm

CAUTIONS

- Use the mixed mortar within 45 minutes.
- Do not add water to reuse the initially set mortar.
- Construction temperature should be between 5-35°C; avoid high temperatures, frost, or windy (above grade 5).
- Clean the mixing tools before and after use.

Transportation and Storage

- Avoid exposure to sunlight, rain, moisture, freezing, and impacts during transportation and storage.



- Store in a cool, dry warehouse at 5-35°F. Ensure liquid components are kept warm when the temperature is below 5°F.
- The shelf life of the product is 12 months under normal transportation and storage conditions.

SAFETY INSTRUCTIONS

The product contains cement, which can be irritating to eyes and skin. Wear necessary protective gear during application. In case of accidental contact with eyes, rinse immediately with water and seek medical attention.

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.

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