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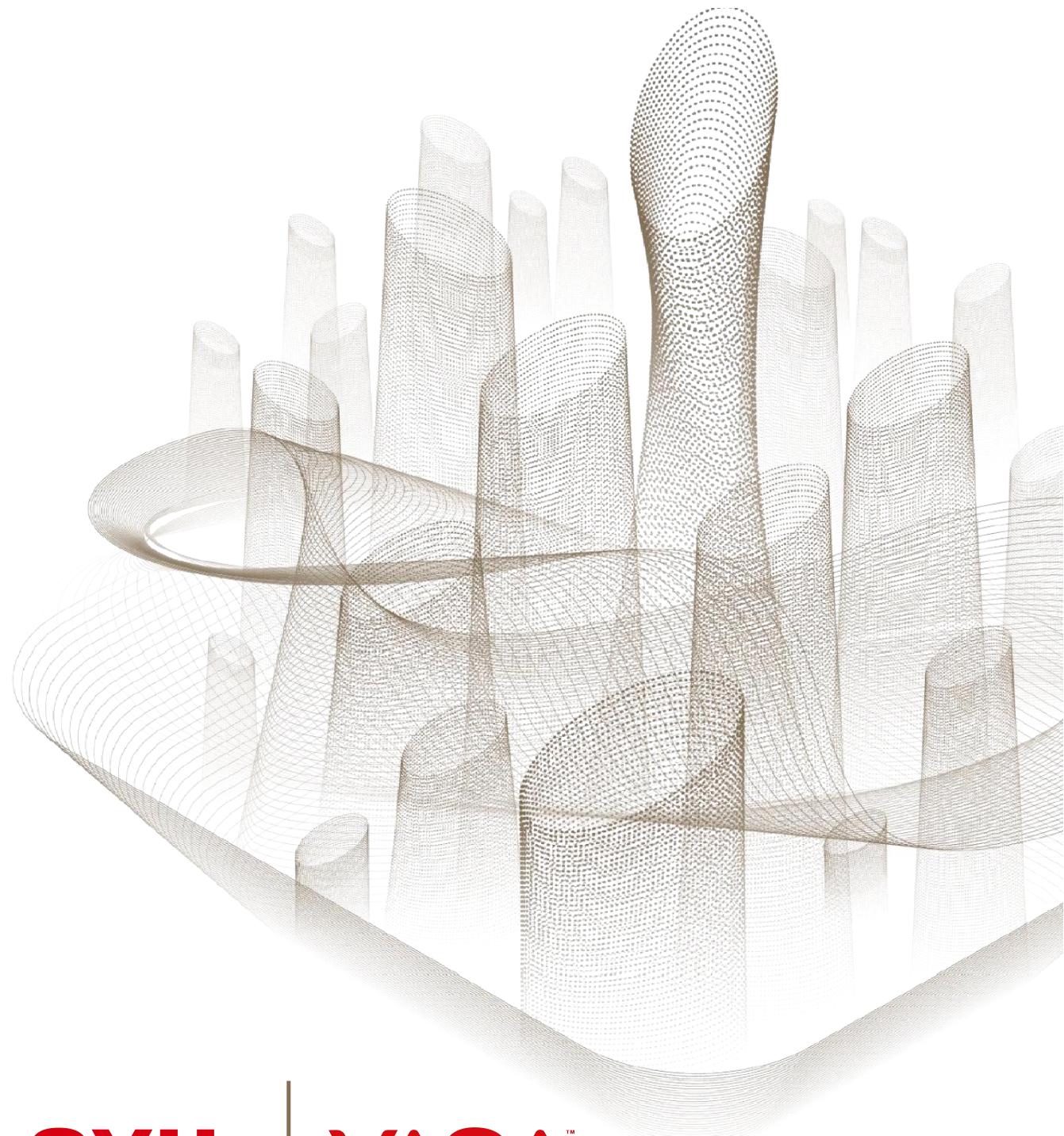


ORIENTAL YUHONG MORTAR & POWDER TECHNOLOGY GROUP CO., LTD.
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PRODUCT MANUALS



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CONTENTS

1 COMPANY PROFILE

2 ABOUT TILING SYSTEM

3 VASA PRODUCTS

[Floor&Masonry&Plastering Mortar series]

- VASA® Floor C200 ----- 6
- VASA® Masonry 200 ----- 7
- VASA® Plastering Standard 100 ----- 9
- VASA® Mortar 2-in-1 102 ----- 11

[Skimcoat series]

- VASA® Skimcoat WR110----- 25
- VASA® Skimcoat WR111 ----- 26

4 PROJECT EXAMPLES

5 HONORS AND CERTIFICATION

[Tile adhesive series]

- VASA® Tile Adhesive Univ 100----- 15
- VASA® Tile Adhesive HP 211----- 17
- VASA® Tile Adhesive Mid 010----- 19
- VASA® Tile Adhesive Flex HP 230----- 21

[Grouting material series]

- VASA® Grout 60 70 80----- 23

6 STRATEGIC PARTNERSHIP

1 COMPANY PROFILE

Founded in 1995, Oriental Yuhong has provided high-quality system solutions for tens of thousands of major infrastructure projects, industrial buildings, and residential and commercial buildings for over two decades, establishing itself as a leading provider of building materials systems services. Striving for high-quality and steady development, the company, with its core waterproofing business at its core, has expanded into upstream and downstream sectors, including related industries. This has resulted in a comprehensive building materials systems service offering encompassing a diverse range of business segments, including building waterproofing, residential building materials, nonwovens, architectural coatings, building repair, energy-saving and thermal insulation, mortar powders, and specialty films.

Mortar & Powder Technology Group is Oriental Yuhong's strategic layout for the mortar powder segment. The company focuses deeply on the five-in-one management model of mortar powder technology research and development, production operations, supply guarantee, sales network, and after-sales service. With the improvement of supply layout and improvement of product quality as the cornerstone, it quickly enhances the core competitiveness of the mortar powder segment and promotes the rapid growth of Yuhong Mortar Powder's performance year by year.



BRAND PROFILE

VASA is a brand of Oriental Yuhong Mortar & Powder Technology Group Co., Ltd. that specializes in the fields of building mortars such as "tile adhesive", "back glue", "waterproof mortar", and "beautifying grout".

The VASA brand has always adhered to quality first, and its products have successively passed many domestic and international certifications such as the German EC1 PLUS certification, the French A+ certification, the Green Ten Ring Certification, and the Green Building Materials Three-Star Certification.



2 ABOUT TILING SYSTEM

- [Floor&Masonry&Plastering Mortar series]
- [Tile adhesive series]
- [Grouting material series]
- [Skimcoat series]

The VASA tiling system is a systematic solution specifically designed for waterproofing and tile installation. With superior quality products and a perfectly compatible combination of components, coupled with customized construction solutions from our VASA Product Technology Center, we create a lasting, safe, and beautiful environment for you! We provide comprehensive, integrated customer service through product support, training, and installation. Leveraging the industry's unique "Nationally Recognized Enterprise Technology Center" R&D platform and combining nearly two decades of application technology experience, we consider base treatment, waterproofing, and tile installation as a system. Through repeated experiments, we have thoroughly researched and verified the compatibility of the materials within the system. With refined craftsmanship and quality assurance, our system solutions have been successfully applied to standardized system construction for public and residential buildings.

The VASA paving system fully considers the safety, coordination and practicality of building base treatment, waterproofing, paving and surface effects. It innovatively combines products according to different application environments and fully considers the matching and compatibility of products in different construction links, thoroughly resolving the safety hazards caused by product mismatch and fragmented construction links. VASA is an integration of wall and floor safety and solutions, representing safety, science and commitment.



3 VASA PRODUCTS

Floor&Masonry&Plastering Mortar

- VASA® Floor C200
- VASA® Masonry 200
- VASA® Plastering Standard 100
- VASA® Mortar 2-in-1 102



Floor Mortar series]

Floor C200 Floor Leveling Mortar

DESCRIPTION

VASA Floor C200 Floor Leveling Mortar is formulated with ordinary Portland cement as an inorganic binder, precisely graded sand as the aggregate, and a mix of functional additives. This product is ready to use after mixing with water and offers excellent crack resistance, easy application, and environmentally friendly features.

WHERE TO USE

Floor leveling projects where the thickness exceeds 10mm.

FEATURES AND BENEFITS

- High crack resistance
- Easy application
- Environmentally friendly

TECHNICAL PARAMETERS

- Calculation of dosage: about 1.7-2.0kg/m²/mm, actual consumption depends on the flatness of the base layer and construction method
- Implementation standard: GB/T25181-2019 "Ready-mixed Mortar" DS
- Product Appearance: Gray powder
- Shelf Life: 3 months

PACKAGING SPECIFICATIONS

40kg/bag/bulk

CONSTRUCTION PROCESS

Substrate Treatment

The surface should be clean and solid. Remove any dust, grease, particles, or other loose materials that may affect adhesion. The surface should be moistened before applying the leveling mortar, and the application should begin when the surface is free of visible water. For surfaces with low strength or high absorbency, apply two coats of VASA PMC-500 primer before proceeding. For smooth surfaces, roughen or create a bonding texture.

Level Marking

Use a level to mark the standard height and design thickness on walls and columns.

Plaster control points around the wall according to the leveling control line, the size of the control points are generally 50x50mm, the horizontal and vertical spacing is 1.5-2.0 meters. Create control points around the walls with leveling mortar (VASA AS15) to guide the application.

Mortar Mixing

Adjust the water addition based on the product certificate and specific requirements. Add water first, then slowly add the powder while mixing. Mix until the mortar is uniform and free of lumps, then allow it to stand for 3-5 minutes before mixing again for 15-30 seconds. The mortar is now ready to use.

Leveling Application

Spread the mortar evenly over the floor surface, ensuring the thickness is slightly higher than the control points by 1-2mm. Use a screed to level the mortar, following the height of the control points. Compaction and smoothing must be completed before the mortar sets. The minimum application thickness should not be less than 10mm. For sloped areas, follow the design specifications.

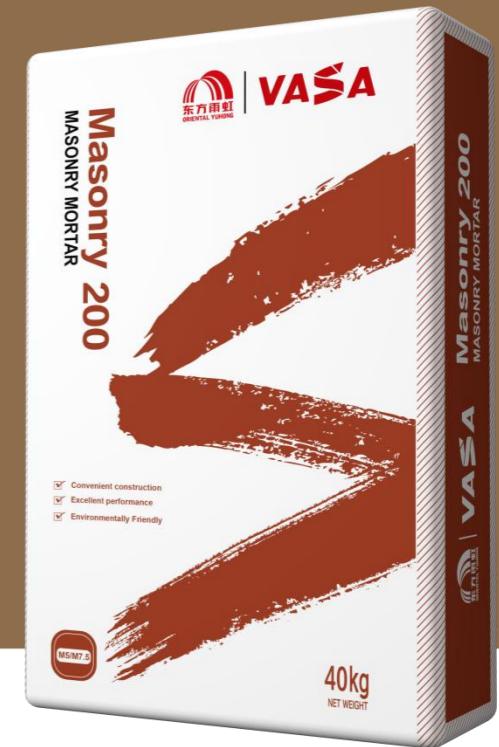
Cleaning and Curing

After the mortar sets and hardens, maintain moisture by curing for at least 7 days.

CAUTIONS

Avoid temperatures below 5°C and above 35°C during application. Store and transport the product to prevent exposure to rain and moisture. Do not use if the product has clumped due to moisture. Do not mix with other products.

Adjust the water addition according to the application method, and use the mixed mortar within 2 hours. Do not add water to hardened mortar.



[Masonry Mortar series]

Masonry 200

■ DESCRIPTION

VASA Masonry 200 Masonry Mortar is formulated using ordinary Portland cement as the inorganic binder, combined with well-graded fine sand as the aggregate, and enhanced with specialized additives. It is ready for use by simply adding water and mixing. This mortar is suitable for laying various types of wall blocks. It features ease of application, excellent performance, and environmentally friendly properties.

■ WHERE TO USE

Sintered brick, solid brick, concrete hollow block, aerated concrete block and so on various types of tile laying mortar joint thickness is not more than 5 mm of the building project.

■ FEATURES AND BENEFITS

- Environmentally friendly
- Excellent workability
- Excellent capability

■ TECHNICAL PARAMENTERS

- Calculation of dosage: about 1.0-1.5kg/m²/mm, actual consumption depends on the flatness of the base layer and construction method
- Implementation standard: GB/T25181-2019 "Ready-mixed Mortar" DM-G
- Product Appearance: Gray powder
- Shelf Life: 3 months

■ APPLICATION PROCEDURE

- **Construction Tools**
Putty knife, electric mixer, spatula knife, etc.
- **Construction Process**

BLOCK MATERIAL PREPARATION

Before masonry work, the block surface should be cleaned of dust, grease, and other substances that could impair bonding. Blocks should be moistened in advance, and masonry should commence only when the surface is free of

visible water. The product age of autoclaved aerated concrete blocks, lightweight aggregate blocks, and ordinary concrete hollow blocks should exceed 28 days.

MORTAR PREPARATION

Refer to the product certificate for the water addition amount. Add water first, followed by the powder, adjusting the water content as necessary based on construction conditions and personal preference. Mix using an electric mixer until the mixture is uniform and free of lumps. Allow the mixture to stand for 3-5 minutes, then stir again for 15-30 seconds before use.

MASONRY CONSTRUCTION

The spreading method is recommended for construction. The mortar joints should be horizontal and vertical, with even thickness and tight, full seams. Vertical joints should be filled using the addition method or extrusion method to ensure fullness, and dry laying followed by grouting is not allowed. If bricks or blocks in the masonry are disturbed or need to be repositioned, the original mortar should be removed before applying fresh mortar for re-laying. The thickness of the mortar joints should be no less than 10mm.

CLEANING AND CURING

After the mortar has set and hardened, timely moist curing should be performed. The curing period should be no less than 7 days.

■ PACKAGING SPECIFICATIONS 40kg/bag/bulk

■ CAUTIONS

- The mortar should be used with mixing, and it should be used up within 2h. The hardened mortar should not be stirred with water;
- The working temperature is 5-35 ° C, avoid outdoor construction in high temperature, frost, direct sunlight or windy and rainy weather..

■ SAFETY GUIDELINES

This product contains cement and polymer emulsion, which can be irritating to eyes and skin. Therefore, please wear necessary protective gear during application. If accidentally splashed into eyes, rinse immediately with clean water and seek medical attention. Keep out of reach of children. For any other inquiries, please consult our technical staff.



[Plastering Mortar series]

Plastering Standard 100

■ DESCRIPTION

VASA Plastering Standard 100 Plastering Mortar is formulated using high-quality cement as the binder, carefully graded sand as the aggregate, and a variety of functional additives. It is suitable for leveling and plastering various base wall surfaces.

■ WHERE TO USE

Plastering on walls, columns, ceilings, and other surfaces.

■ FEATURES AND BENEFITS

- Environmentally friendly
- Excellent workability
- Superior water retention
- Strong adhesion

■ TECHNICAL PARAMETERS

- Calculation of dosage: about 1.7-2.0kg/m²/mm, actual consumption depends on the flatness of the base layer and construction method

- Implementation standard: GB/T25181-2019 "Ready-mixed Mortar" DP-G
- Product Appearance: Gray powder
- Shelf Life: 3 months

■ APPLICATION PROCEDURE

■ Substrate Treatment

The substrate should be flat and solid, with a clean surface. Any grooves, holes, or defects left from previous processes should be filled and repaired. At the junctions of different substrate materials, crack prevention measures should be taken by installing a reinforcement mesh. The mesh should overlap with each substrate by no less than 100mm. When plastering on substrates such as concrete, autoclaved aerated concrete blocks, autoclaved lime-sand bricks, and autoclaved fly ash bricks, a suitable interface mortar should be used to treat the substrate.

■ Mortar Preparation

Add water according to the water ratio range marked on the package certificate. First, add water into the mixing container, then slowly add the mortar powder while stirring with an electric mixer until the mixture is uniform and free of lumps. Let the mixture sit for 3-5 minutes, then stir again for 15-30 seconds before use. The actual water addition may be adjusted according to construction conditions and personal habits.

■ Plastering Application

Marking Reference Points: According to the flatness and verticality of the substrate surface, create reference lines and squares to determine the plaster thickness. The total plaster thickness should not be less than 10mm. Use plastering mortar to create reference points, which should be made into 50mm x 50mm squares.

Plastering and Leveling: Before plastering, wet the substrate surface with water until the water penetrates the wall to a certain depth. Plaster when the surface is free of standing water. The plaster thickness should comply with the specifications. After applying the top layer of mortar, use a plastic or

wooden trowel to smooth and compact it. If the plaster thickness is 35mm or more, reinforcement mesh should be used.

■ Cleaning and Curing

Before the plaster mortar sets, protect it from water, impact, vibration, and freezing. Measures should be taken to prevent contamination and damage.

After the plaster mortar layer sets and hardens, it should be promptly cured with water for no less than 7 days.

■ CAUTIONS

The working temperature should be 5-35°C. Protective measures should be taken during construction in rainy or windy weather (winds above level 5).

Adjust the water addition according to the construction method. The mixed mortar should be used within 2 hours. Do not re-use hardened mortar by adding water.



Do not add yellow sand, cement, or other substances during use.

Mortar that falls to the ground during application should not be re-mixed with water and used again.

During high-temperature construction, the wall surface should be appropriately wetted to avoid rapid water loss in the newly applied mortar due to direct sunlight.

Construction joints should align with structural joints, and corners should also be reinforced.

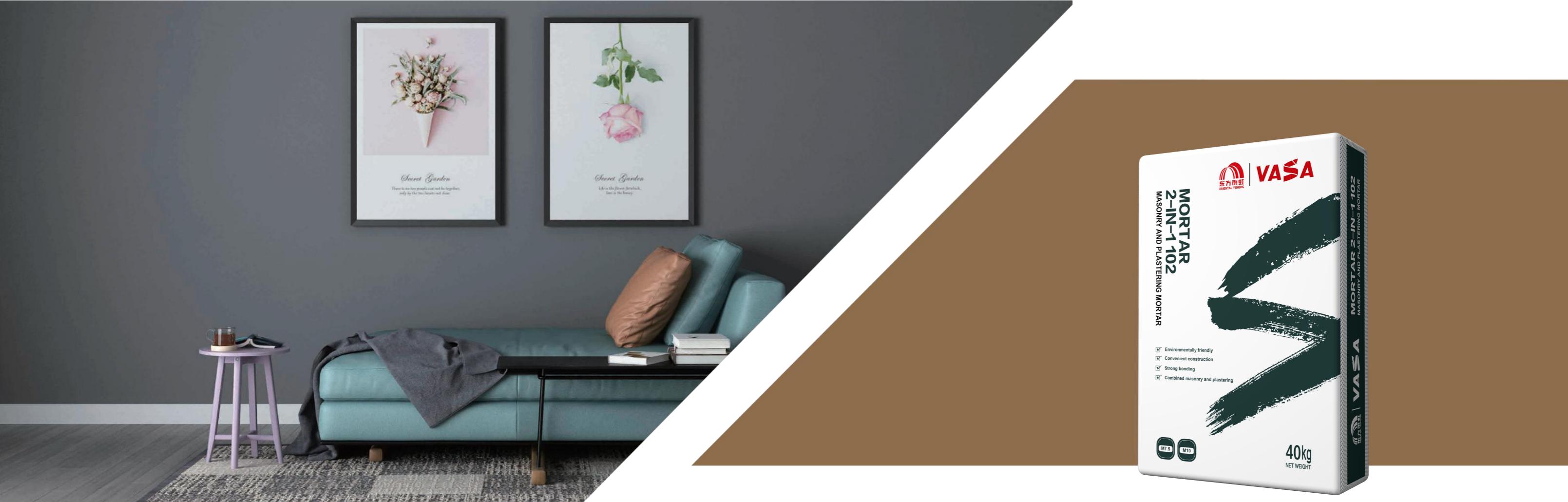
The finished surface should be protected from rain, sun exposure, impact, and vibration.

■ SAFETY GUIDELINES

This product contains cement and polymer emulsion, which can be irritating to eyes and skin. Therefore, please wear necessary protective gear during application. If accidentally splashed into eyes, rinse immediately with clean water and seek medical attention. Keep out of reach of children. For any other inquiries, please consult our technical staff.

■ PACKAGING SPECIFICATIONS

40kg/bag/bulk



[Masonry & Plastering Mortar series]

Mortar 2-in-1 102 Masonry

■ DESCRIPTION

VASA Mortar 2-in-1 102 Masonry and Plastering Mortar is a pre-mixed dry material composed of carefully graded aggregates, inorganic binders, mineral admixtures, and various chemical additives blended in precise proportions.

■ WHERE TO USE

Masonry projects involving various types of blocks, such as sintered bricks, solid bricks, concrete hollow blocks, and aerated concrete blocks. Additionally, it is ideal for plastering work on walls, columns, and ceilings.

■ FEATURES AND BENEFITS

- Convenient application
- Strong adhesion
- Masonry and plastering in one product
- Environmentally friendly

■ TECHNICAL PARAMENTERS

- Calculation of dosage: about 1.7-2.0kg/m²/mm, actual consumption depends on the flatness of the base layer and construction method
- Implementation standard: GB/T25181-2019 "Ready-mixed Mortar" DM-G, DP-G
- Product Appearance: Gray powder
- Shelf Life: 3 months

■ APPLICATION PROCEDURE

Material Preparation

Refer to the product's certification for the recommended water addition.

First, add the appropriate amount of water into the mixing container, then gradually add the powder while stirring. Mix with an electric mixer until the mixture is uniform and free of lumps. Let it sit for 3-5 minutes, then stir again for 15-30 seconds before use. The mixed mortar should be used within 2 hours.

Masonry Application

■ Masonry Use

Before masonry work, ensure the block surfaces are clean, removing dust, grease, and other substances that may affect adhesion. Blocks should be pre-wetted, with masonry work starting only after the surface water has evaporated. The age of aerated concrete blocks, lightweight aggregate blocks, and regular concrete hollow blocks should exceed 28 days.

The bedding mortar should be applied using a spreading technique, ensuring that the mortar joints are horizontal, vertical, even in thickness, and fully compacted. Vertical joints should be fully filled using the slushing or squeezing method, and dry-stacked blocks should not be used before joint filling. If any blocks are disturbed or need repositioning, the old mortar should be removed before reapplying fresh mortar.

■ Plastering Use

Plastering should commence only after the masonry or main structure has passed inspection.

Prior to plastering, surface treatment of the substrate should be performed depending on the type of base, e.g., using matching interface mortars when plastering on concrete, autoclaved aerated concrete blocks, autoclaved lime-sand bricks, or autoclaved fly-ash bricks.

Based on the flatness and verticality of the substrate surface, determine the plaster thickness. The total plaster thickness should generally not be less than 10mm. Use plaster mortar to create leveling patches, ideally square-shaped with dimensions of 50*50mm.

Before plastering, the base wall surface should be wetted thoroughly so that water penetrates to a certain depth without leaving surface water. Each plaster coat thickness should be between 5-10mm. When the plaster thickness exceeds 10mm, apply it in layers, allowing each previous coat to set and harden before applying the next. After applying the final layer, smooth and compact it using a plastic or wooden trowel.

For plaster thicknesses equal to or greater than 35mm, reinforcement mesh should be used for additional support.

■ CAUTIONS

When the product is stirred with water on site, the machine should be used to stir, and the amount of water added and the consistency should be strictly controlled;

This product increases with the increasing mix should use, operational time for 2 hours;

It is strictly prohibited to add water and remix the mortar after it has exceeded its workable time and begun to set.

During application and within 48 hours after, the ambient temperature should not be lower than 5°C or higher than 40°C.

No additional components such as admixtures, yellow sand, or river sand should be added.

The construction environment temperature should be between 5°C and 35°C. Avoid construction during rain, extreme heat, strong winds, or freezing conditions.

■ PACKAGING SPECIFICATIONS 40kg/bag/bulk



[Tile adhesive series]

- VASA® Tile Adhesive Univ 100
- VASA® Tile Adhesive HP 211
- VASA® Tile Adhesive Mid 010
- VASA® Tile Adhesive Flex HP 230

VASA Tile Adhesive is a new, environmentally friendly tile adhesive made from a scientifically formulated blend of fine aggregate, inorganic cementitious materials, polymer powder, and various functional additives. It can be used to bond tiles and stone materials of various specifications. It offers advantages such as labor and material savings, safety, and durability, making it a promising alternative to traditional cement mortar.

■ PRODUCT FEATURES

- No need to soak bricks, improving efficiency.
- Simply add water for easy application.
- Excellent mix ratio and stable performance.
- Thin layer adhesive for space saving.
- Strong, safe, and long-lasting bond.
- Ten-ring certification, environmentally friendly.

■ PRECAUTIONS

The release agent on the back of the tile must be cleaned thoroughly.

For highly absorbent substrates or in hot, dry environments, the base surface must be moistened before application.

Prepared tile adhesive must be used within 2 hours; hardened slurry cannot be reused.

For tiles with deep back grain or large dimensions ($\geq 300\text{mm} \times 300\text{mm}$), double-sided adhesive should be applied, and the gaps between the tiles should be filled with adhesive.

Use a toothed trowel of different specifications based on the tile size. The larger the tile, the larger the spacing between the teeth.

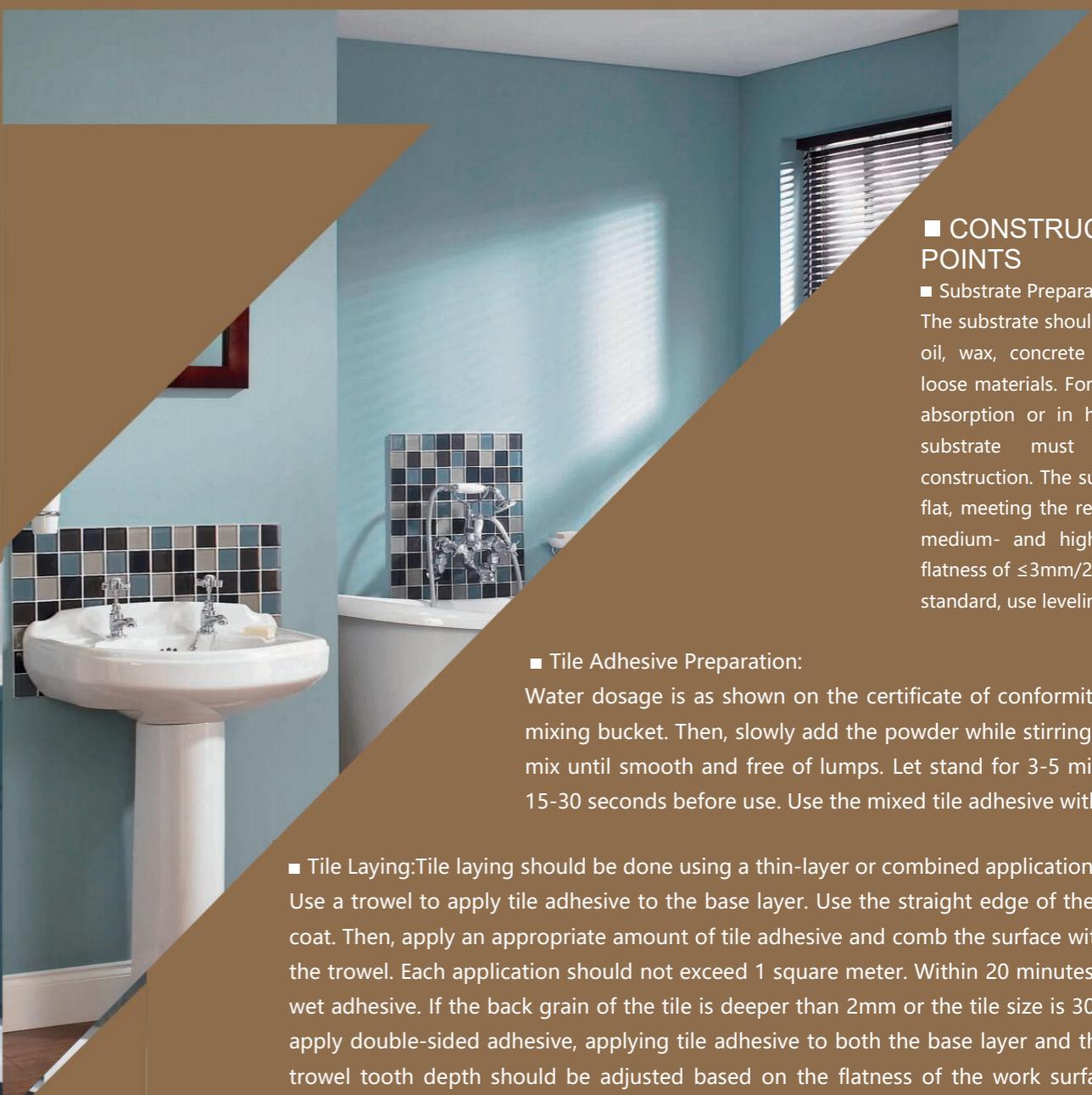
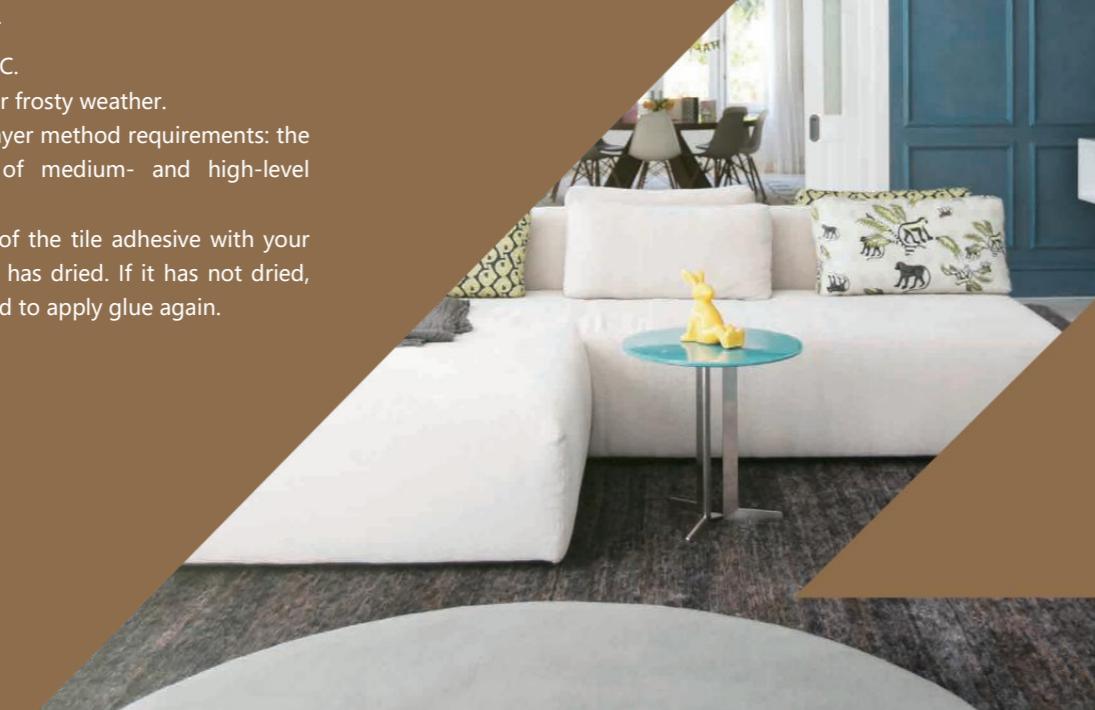
After tiling, wait until the tile adhesive has completely dried (approximately 24 hours) before proceeding to the next step of caulking.

Suitable application temperature: 5-35°C.

Avoid application in rainy, hot, windy, or frosty weather.

The base must be solid and flat (thin-layer method requirements: the base must meet the requirements of medium- and high-level plastering in GB50210).

Before laying tiles, touch the surface of the tile adhesive with your fingers to check whether the adhesive has dried. If it has not dried, you can lay tiles. If it has dried, you need to apply glue again.



■ CONSTRUCTION KEY POINTS

■ Substrate Preparation:

The substrate should be firm, clean, and free of oil, wax, concrete curing agents, and other loose materials. For substrates with high water absorption or in hot, dry environments, the substrate must be moistened before construction. The substrate should be firm and flat, meeting the requirements of GB50210 for medium- and high-grade plastering, with a flatness of $\leq 3\text{mm}/2\text{m}$. If this does not meet the standard, use leveling mortar for leveling.

■ Tile Adhesive Preparation:

Water dosage is as shown on the certificate of conformity. First, add water to the mixing bucket. Then, slowly add the powder while stirring. Use an electric stirrer to mix until smooth and free of lumps. Let stand for 3-5 minutes, then stir again for 15-30 seconds before use. Use the mixed tile adhesive within 2 hours.

■ Tile Laying: Tile laying should be done using a thin-layer or combined application method.

Use a trowel to apply tile adhesive to the base layer. Use the straight edge of the trowel to apply a thin coat. Then, apply an appropriate amount of tile adhesive and comb the surface with the serrated edge of the trowel. Each application should not exceed 1 square meter. Within 20 minutes, press the tile into the wet adhesive. If the back grain of the tile is deeper than 2mm or the tile size is 300 x 300mm or greater, apply double-sided adhesive, applying tile adhesive to both the base layer and the back of the tile. The trowel tooth depth should be adjusted based on the flatness of the work surface and the degree of unevenness on the back of the tile. After attaching, fine-tune the joints of the tiles within 15 minutes. Reattach after this time.

■ Product Protection: Joints can be caulked 24 hours after attaching. Avoid strong vibration for 7 days.

■ APPLICATION TOOLS

The tools needed for applying tile adhesive include: an electric mixer, a mixing bucket, a measuring cup, a toothed trowel, a putty knife, a rubber mallet, a level, a measuring tape, a chalk marker or laser level, a tile cutter, and cross-shaped adhesive pellets.



Electric mixer



Toothed trowel



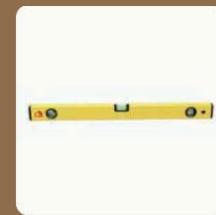
Putty knife



Rubber hammer



Plumb bob



Level



[Tile adhesive series]

Tile Adhesive Univ 100

■ 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.

■ FEATURES AND BENEFITS

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

■ 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.

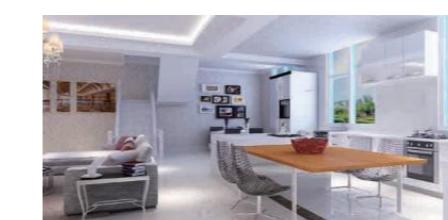
■ TECHNICAL PARAMETERS

- Standard: EN 12004-2 C1
- Product Appearance: Gray powder
- Opening Time: 20 minutes
- Working Time: 2 hours
- Recommended Dosage: 1.5 kg/m²/mm
- Shelf Life: 12 months when stored in a cool, dry place in unopened packaging.

■ PACKAGING SPECIFICATIONS

25 kg/bag/bulk

■ APPLICATION GUIDE



■ SAFETY GUIDELINES

This product contains cement, which can be irritating to eyes and skin. Therefore, please wear necessary protective gear during handling. If contact with eyes occurs, rinse immediately with clean water and seek medical attention. Keep out of reach of children. For any other inquiries, please consult our technical staff.



[Tile adhesive series]

Tile Adhesive HP 211

■ DESCRIPTION

VASA Tile Adhesive HP 211 (High Performance Extended Open Time) is formulated using high-quality cement as an inorganic bonding material, finely selected graded sand as the aggregate, and a blend of various polymers and functional additives. This product is prepared for use by simply adding water and stirring. The recommended adhesive layer thickness ranges from 3mm to 10mm.

■ FEATURES AND BENEFITS

- Exceptional bonding strength
- Resistant to tile slippage during installation
- Smooth and easy to apply during construction
- Environmentally friendly

■ WHERE TO USE

Applicable to tiles of different specifications and water absorption rates, especially suitable for indoor tiling of ordinary vitrified tiles within 800*800mm and full vitrified tiles within 300*600mm.

■ The specific application scope for vitrified tiles 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.	Ordinary ceramic tiles (Water absorption rate 0.2~0.5%)	≤800×800mm	Stable substrates such as cement mortar, concrete, brick walls, etc.	Ordinary ceramic tiles (Water absorption rate 0.2~0.5%)	≤300mm×300mm
	Fully ceramic tiles (Water absorption rate <0.2%)	≤300mm×600mm		Fully ceramic tiles (Water absorption rate <0.2%)	≤100mm×200mm

■ TECHNICAL PARAMETERS

- Standard:EN 12004-2 C2TE
- Product Appearance: Gray powder
- Opening Time: 20 minutes
- Working Time: 2 hours
- Recommended Dosage: 1.5 kg/m²/mm
- Shelf Life: 12 months when stored in a cool, dry place in unopened packaging.

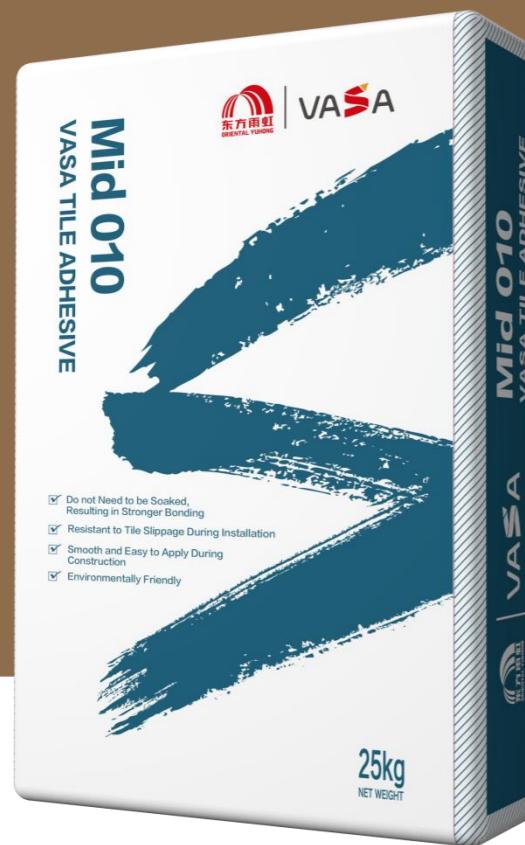
■ PACKAGING SPECIFICATIONS

25 kg/bag/bulk

■ SAFETY GUIDELINES

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[Tile adhesive series]

Tile Adhesive Mid 010

■ DESCRIPTION

VASA Tile Adhesive Mid 010 (Medium-thick Set) is specially developed for indoor uneven substrates for ceramic tile installation. It is designed for bonding ordinary ceramic tiles with a water absorption rate greater than 6, typically with a bonding thickness of 5~20mm. It exhibits excellent anti-slip and bonding strength properties. This product is composed of ordinary silicate cement as the inorganic binder, refined graded sand as aggregate, and various functional additives, forming a powder-type environmentally friendly ceramic tile adhesive. It can be used by simply mixing with water.

■ FEATURES AND BENEFITS

- Do not need to be soaked, resulting in stronger bonding
- Resistant to tile slippage during installation
- Smooth and easy to apply during construction
- Environmentally friendly

■ TECHNICAL PARAMETERS

- Product Appearance: Gray powder
- Opening Time: 20 minutes
- Jointing Time: 24h (20~35°C) 2~3d (5~20°C)
- Recommended Dosage: 1.7 kg/m²/mm
- Shelf Life: 12 months when stored in a cool, dry place in unopened packaging.

■ PACKAGING SPECIFICATIONS

25 kg/bag/bulk

■ SAFETY GUIDELINES

This product contains cement, which can be irritating to eyes and skin. Therefore, please wear necessary protective gear during handling. If contact with eyes occurs, rinse immediately with clean water and seek medical attention. Keep out of reach of children. For any other inquiries, please consult our technical staff.

■ WHERE TO USE

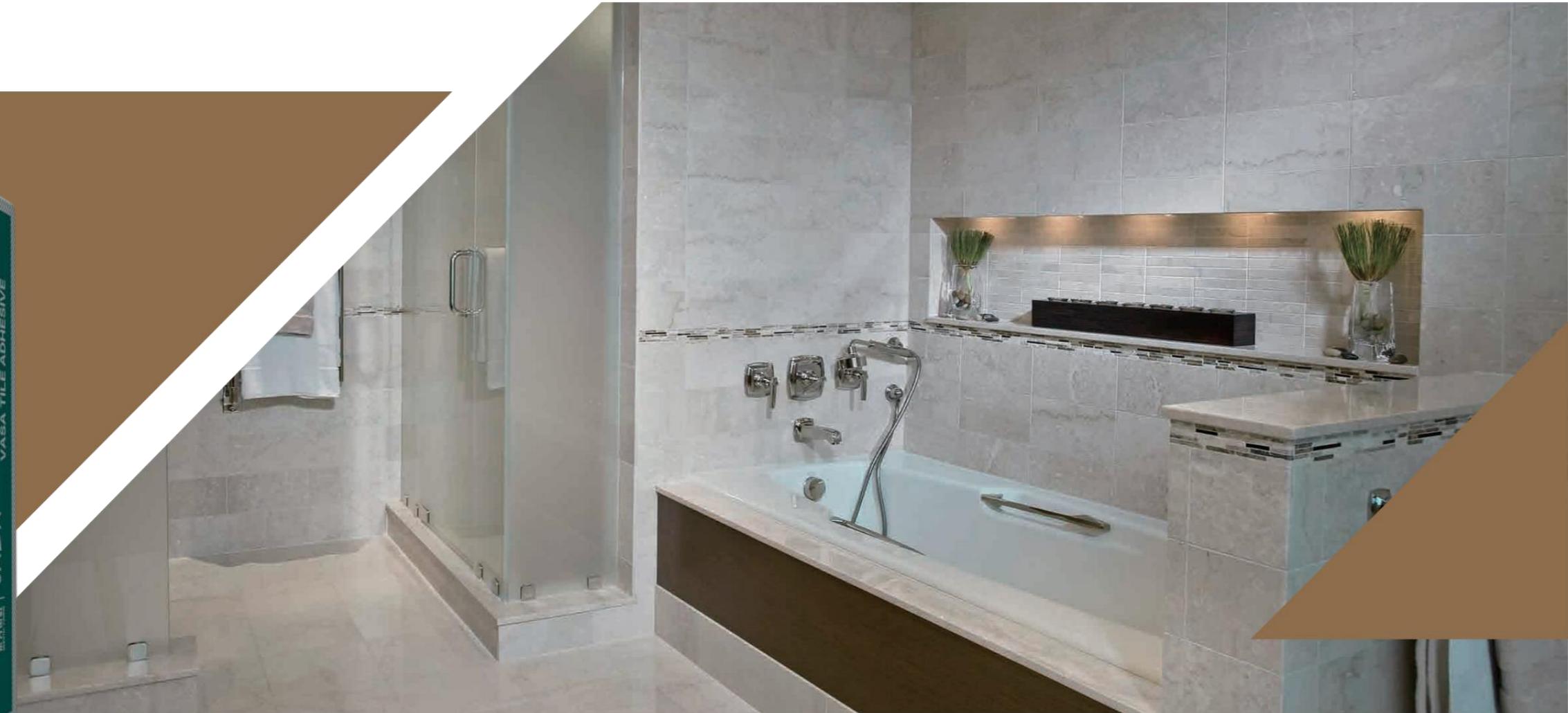
- Suitable for indoor tile paving. Specific application areas are as follows:

Interior Applications			Not Suitable for Outdoor Applications
Suitable Substrate	Suitable Tiles	Suitable Tile Size	
Stable substrates such as cement mortar, concrete, brick walls, etc.	High water absorption tiles (water absorption rate > 6%, indicating obvious absorption when the backside is dripped with water)	≤600×600mm	

■ CAUTIONS

- Construction environment temperature should be between 5°C -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.





[Tile adhesive series]

Tile Adhesive Flex HP 230

■ DESCRIPTION

VASA Tile Adhesive Flex HP 230 (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.

■ FEATURES AND BENEFITS

- Ultra-flexible performance
- Crack-resistant and earthquake-resistant
- Environmentally friendly

■ TECHNICAL PARAMETERS

- Standard:EN 12004-2 C2TES1
- Product Appearance: Gray powder
- Opening Time: 30 minutes
- Working Time: 2 hours
- Recommended Dosage: 1.5 kg/m²/mm
- Shelf Life: 12 months when stored in a cool, dry place in unopened packaging.

■ SAFETY GUIDELINES

This product contains cement, which can be irritating to eyes and skin. Therefore, please wear necessary protective gear during handling. If contact with eyes occurs, rinse immediately with clean water and seek medical attention. Keep out of reach of children. For any other inquiries, please consult our technical staff.

■ 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 > 1.62m² 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.

■ PACKAGING SPECIFICATIONS 25 kg/bag/bulk



[Grouting material series]

Grout 60 / 70 / 80

■ DESCRIPTION

The cementitious grout is primarily composed of high-strength aggregates, cement or specialized cement, supplemented with additives such as high-flow, micro-expansion, anti-segregation, etc. It is a homogeneous inorganic powder material mixed uniformly through mixing equipment. At the construction site, a certain amount of water is added, mixed evenly, and then injected into the reinforcement area to form a high-strength connection structure.

■ WHERE TO USE

- Secondary grouting for equipment foundations.
- Reinforcement and repair of concrete structures.
- Anchoring of foundation bolts and column base plates.
- Anchoring of reverse construction joints in projects such as subways, tunnels, and underground structures.
- Secondary grouting for fixing connections between steel structures (such as steel rails, frames, and columns) and foundations.

■ FEATURES AND BENEFITS

■ Early strength, high strength:

Compressive strength (60) : 3 days \geq 40 MPa, 28 days \geq 60 MPa.

Compressive strength (70) : 3 days \geq 40 MPa, 28 days \geq 70 MPa.

Compressive strength (80) : 3 days \geq 60 MPa, 28 days \geq 80 MPa.

■ High fluidity: Can fill all gaps in equipment foundations without vibration, meeting connection structure requirements.

■ High stability: No shrinkage cracks or other defects after formation.

■ Micro-expansion: Ensures tight contact between equipment and foundation after grouting.

■ Strong durability: Belongs to inorganic bonding material, with a service life longer than that of basic concrete. Withstands hundreds of fatiguing tests and shows no significant changes in strength after 50 freeze-thaw cycles. Strength significantly increases after soaking in engine oil for 30 days.

■ APPLICATION PROCEDURE

■ Clean the surface of the foundation, ensuring no debris such as gravel or dust. Before grouting, the foundation surface should be kept moist, without standing water.

■ On-site, determine the water-cement ratio based on the recommended ratio. Water temperature between 5-40°C is suitable, and mechanical or manual mixing can be used. Mechanical mixing should be done for 1-2 minutes. For manual mixing, first add 2/3 of the water and mix for 3 minutes, then add the remaining water and continue mixing until uniform.

■ The grout should be poured from one side, not from all sides simultaneously. Grouting should be continuous without interruption, and efforts should be made to shorten the grouting time.

■ After grouting is completed, any excess material that needs to be removed should be handled before the grout sets.

■ After construction, immediately cover with plastic film and add grass curtains or blankets for moisture retention and curing.



[Grouting material series]

Grout 60/70/80

■ TECHNICAL INFORMATION

Product Technical Parameters	Packing Specification	25kg/bag
	Character	Grey mortar
	Executive Standard	JC/T986-2018
	Mixing ratio	Powder: Water = 1:0.12-0.13 (by weight)
	Shelf life	6 months when stored unopened in a cool, dry place. When the temperature is below 5°C, insulation measures should be done.
Construction Technical Parameters	Construction Environment	2-3t/m³
	Construction Consumption	Working temperature 5°C~35°C. Outdoor construction should be avoided in high temperature, frost, direct sunlight, or windy rainy weather.
	Operable Time	30min

■ CAUTIONS

- Grout material must be kept dry on site to avoid moisture;
- Grout pulp should be used within 30min;
- Do not add water or other materials during the period from pulping to use.

■ TRANSPORTATION AND STORAGE

- The shelf life is 6 months. After the shelf life, retesting for compliance is required before use.
- This product should be stored in a cool, dry, and ventilated place, away from direct sunlight. During transportation, ensure the packaging of the grouting material remains intact.



[Skimcoat series]

Skimcoat WR110

■ DESCRIPTION

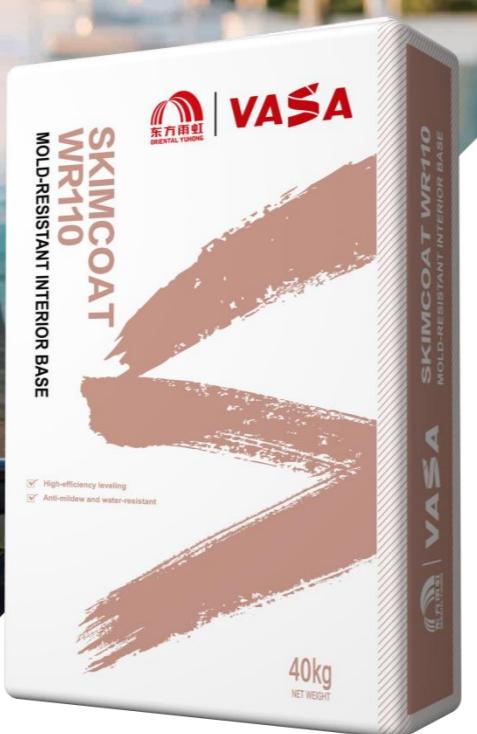
VASA Skimcoat WR110 Mold-Resistant Interior Base is a leveling material for interior walls and ceilings, made from natural powders, eco-friendly composite additives, and water-resistant materials. The product is highly breathable, adheres firmly to the substrate after application, and is environmentally friendly with no odor.

■ WHERE TO USE

Leveling and smoothing interior walls and ceilings, particularly in humid environments or where high bonding strength is required.

■ FEATURES AND BENEFITS

- High-efficiency leveling
- Anti-mildew and water-resistant

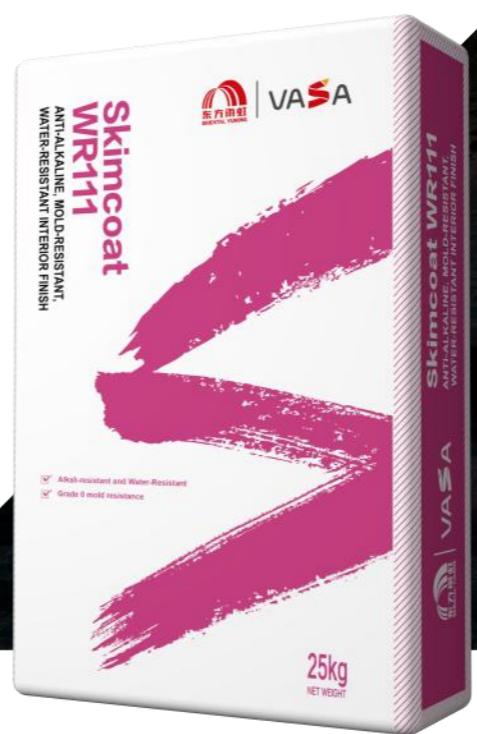


■ TECHNICAL INFORMATION

- Executive Standard: JG/T 298-2010 "Interior Building Putty" Type N
- Character: Gray powder
- Consumption: 1.0-1.5kg/m²/per coat, recommended usage may vary depending on the substrate and environmental conditions, actual usage should prevail
- Operational Time: 2h(25°C)
- Storage period: Storage period: Under normal transportation and storage conditions, the product storage period is:12 months(papel bag)/ 6 months(woven bag).

■ PACKAGING SPECIFICATIONS

40kg/bag/bulk



■ TECHNICAL INFORMATION

- Executive Standard: JG/T 298-2010 "Interior Building Putty" Type Y
- Character: White powder
- Consumption: 1.0-1.5kg/m²/per coat, recommended usage may vary depending on the substrate and environmental conditions, actual usage should prevail
- Operational Time: 2h(25°C)
- Storage period: Storage period: Under normal transportation and storage conditions, the product storage period is:12 months(papel bag)/ 6 months(woven bag).

■ PACKAGING SPECIFICATIONS

25kg/bag/bulk

[Skimcoat series]

Skimcoat WR111

■ DESCRIPTION

VASA Skimcoat WR111 Anti-Alkaline, Mold-Resistant, Water-Resistant Interior Finish is a high-quality interior wall putty made from premium inorganic cementitious materials and environmentally friendly additives. It boasts high bonding strength, easy application, eco-friendly mildew resistance, alkaline resistance, and crack prevention. It offers a smooth application feel and high whiteness.

■ WHERE TO USE

Coating application of interior walls and ceilings in conjunction with paint.

■ FEATURES AND BENEFITS

- Alkaline resistance and waterproofing
- Level 0 mildew resistance

■ WR110/WR111 APPLICATION PROCEDURE

- Ensure that the substrate is fully dry, solid, free of oil stains, and other loose materials. Powdery or peeling substrates should be cleaned before application.
- Add water according to the specified amount, and use an electric mixer to stir thoroughly for 3 to 5 minutes. Let the mixture stand for 3 to 5 minutes, then stir again until uniform before use.
- Use a spatula or other appropriate tool for application. It is recommended that each coat be 1 to 2mm thick. If the substrate requires more leveling, it is advisable to apply multiple coats.

5 PROJECT EXAMPLES



Forest City Malaysia



CITIC Tower



Beijing Urban Sub-Center Administrative Office Building



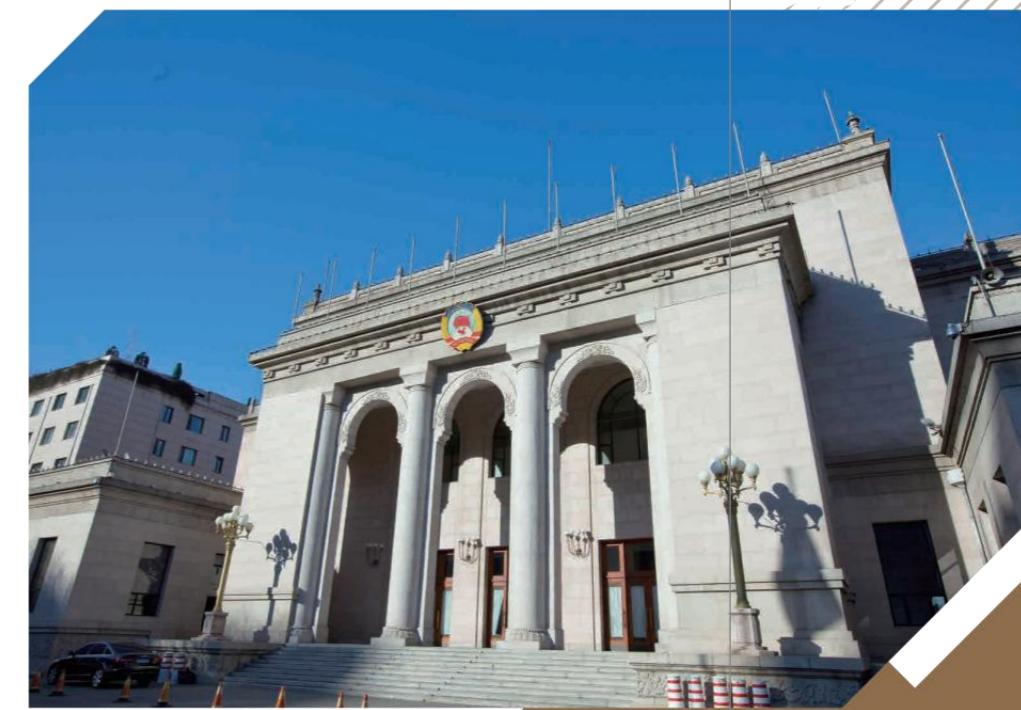
Shanghai International Financial Center



Delta Center



Hong Kong - Zhuhai - Macao Bridge



CPPCC Auditorium