



Grey Stone Mate Crocodile

Tile Adhesive



Special tile adhesive for dark natural stone tile, minimized efflorescence

Grey Stone Mate Crocodile Tile Adhesive is powder latex enhanced dry-set mortar, composed of Portland cement, sand and special chemical to avoid efflorescence. Excellent for dark natural stone and all types of tiles both interior and exterior installation.

Product features

- Great for high humidity areas.
- Minimized efflorescence with CAC Technology.
- Suitable for tiles and dark natural stones of all sizes.
- Suitable for interior and exterior use on floor and wall.

USA Standard : ANSI A118.1, A118.4, A118.15

Thai Industrial Standard : TIS 2703-2566 (2023) (Special Quality Class)

Color : Grey

Installation

Preparation

For New surface : The surface must be dry, flat, level and fully cured. It should be free of all grease, oil, dust, curing compounds, old adhesive residues and any other adulterant. Make sure water absorption of the substrate is at normal level. In case of new rendering or leveling, the substrate should be fully cured for 7 days or 168 hours per 1 cm thickness of adhesive before tiling.

For old substrate : Clean up the surface with high-pressure jet spray to remove dust, adulterant and any de-bonding tiles. Allow the substrate to dry completely before re-tiling.

Proportion of Mixing

Grey Stone Mate Crocodile Tile Adhesive 20 kg (per bag) per 4.6 L of water

Grey Stone Mate Crocodile Tile Adhesive 2.8-3.2 parts per 1 part of water by volume.



Mixing

- Mix Tile Adhesive with clean, potable water thoroughly until smooth with a mechanical mixer at a low speed (≤ 150 rpm).
- Let mortar slakes for 15 minutes before mixing a second time. Do not add water, latex, or additional powder after slaking period.

Application

1. Spread mortar with flat side of trowel to key-in substrate, and then apply additional mortar to ensure that it covers 100% at the back of tile.
2. Apply notched side at 60-degree angle in the same direction throughout installation surface.
3. Recommend applying the product all over the back of tile to compensate for bending and prevent a gap under tile that may cause less compressive strength and be easy to crack.
4. After placing tile on the prepared surface, slide it orthogonally to the notched lines and tap to maximize bonding.
5. Tiles can be adjusted for proper alignment within 30 minutes after applying the products. Timing may vary depending on temperature. Recommend not to adjust further after setting. Make sure that the products are covered all over the back of tiles. Suitable thickness of tile adhesive on substrate is 3-10 mm

Curing and Grouting

- A minimum cure is obtained in 24-48 hours, depending on ambient temperatures.
- For better quality, Crocodile Tile Grout should be chosen to suit each type of tiles. Crocodile Tile Grout has many types and colors for each joint and place.

Information

Density	1.40 g/cm ³
Open time	30 minutes
Slake time	15 minutes
Pot life at 23 ± 2 °C	1 hour
Adjustment time	10-20 minutes
Suitable thickness of tile adhesive on substrate	3-10 mm
A minimum cure is obtained	24-48 hours

Remarks: Test results obtained from laboratories under controlled conditions may result in testing results that differ from the actual site conditions due to many factors such as temperature, environment, equipment, and others.



Technical Data

USA Standard

Test Method by USA Standard (ANSI : American National Standard Institute)	ANSI A118.15	Standard Requirements A118.15	Result
Tensile adhesion strength	Part 5.3		
Open time : tensile adhesion strength 20 minutes at 28 days	Part 5.3	≥ 75 psi	> 75 psi
Extended open time (E) : tensile adhesion strength 30 minutes at 28 days	Part 5.3	≥ 75 psi	> 75 psi
Shear strength (Porcelain mosaic)	Part 7.2		
7 days	Part 7.2.3	> 300 psi	> 400 psi
7 days water immersion	Part 7.2.4	> 200 psi	> 200 psi
28 days	Part 7.2.5	> 400 psi	> 475 psi
28 days heat aging 70 °C	Part 7.2.7	> 400 psi	> 450 psi

Remark : 1 MPa = 1 N/mm² = 10.197 ksc = 145.038 psi

Suggestion

- Grouting after tile installation at least 48 hours to achieve maximum efficiency.
- Recommend to apply the product all over the back of tile to maximize bonding strength.

Limitations

Able to use over plywood structure. Cement plywood board must be at least 19 mm thick, firmly installed and not bent.

** Please contact us for application on exceptional materials.

Caution

- May be harmful to the eyes, skin, or lungs. Wear suitable protective clothing, gloves, and eye/face protection.
- In case of contact with eyes, rinse immediately with water and seek medical advice.
- After contact with skin, wash immediately with water.
- Keep out of reach of children.
- Do not eat.

Storage

- It should be kept in a dry place and the temperature is not too high to avoid product's degradation.
- Use within 1 year from the date of manufacturing.



Packing

Net weight : 20 kg / Bag

The information provided is given in good faith, based on current knowledge and Jorakay Corporation's experience with the products when they are properly stored, handled and applied in normal situations and in accordance with the recommendations of Jorakay Corporation. This is useful for information and consulting but is not legally binding. In particular, it does not exempt the user from testing and verifying the suitability of the product for the desired application and purpose. Jorakay Corporation reserves the right to modifications that improve the product or its application. This version invalidates the previous ones.