



X-Treme Crocodile

Tile Adhesive



Extremely innovative adhesive for big slab

X-Treme Crocodile Tile Adhesive is a powder latex enhanced dry-set mortar composed of Portland cement, sand, and special chemical additives. X-Treme Crocodile Tile Adhesive has extra bonding strength, flexibility, and weather resistance. Suitable for all extra-large tiles, marble, granite, ceramic, and porcelain tiles, and all types of natural stone tile. Able to install over existing floor tiles without removal. Both interior and exterior floor and wall installations. Able to apply to structural plywood, and fiber cement board.

Product features

- Perfect for extra-large tile, marble and natural stone.
- Possible to apply on various substrates including ceramic tile, structural plywood and fiber cement
- Extra bonding. Vibration resistance.
- Comply with the highest standards of both the USA and Europe.

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

European Standard : EN 12004 Class C2S2E

International Standard : ISO 13007 Class C2S2E

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

Color : Grey

Installation

Preparation

For new substrate : 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 a 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, adulterants, and any de-bonding tiles. Allow the substrate to dry completely before re-tiling.



Existing tiles : Recheck bonding strength between the existing tiles and the surface before installing tile over tile. In case of poor strength, recommend to remove the existing tiles.

Proportion of Mixing

X-Treme Crocodile Tile Adhesive 20 kg (per bag) per 4.4 L of water.

X-Treme Crocodile Tile Adhesive 4 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 15 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 the 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 Turbo Plus is recommended for tiles grout.

Information

Density	1.36 g/cm ³
Open time	30 minutes
Slake time	15 minutes
Pot life at 23 $\pm$ 2 °C	8 hours
Adjustment time	15 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 (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	> 200 psi
Extended open time (E) : tensile adhesion strength 30 minutes at 28 days	Part 5.3	≥ 75 psi	> 100 psi
Shear strength (Porcelain mosaic)	Part 7.2		
7 days water immersion	Part 7.2.4	> 200 psi	> 200 psi
28 days	Part 7.2.5	> 400 psi	> 500 psi
28 days heat aging 70 °C	Part 7.2.7	> 400 psi	> 900 psi

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

EN Standard and International Standard

Test Method by EN Standard and International Standard (European Standards / International Standardization and Organization)	EN 12004 ISO 13007	Standard Requirements C2S2E	Result
Adhesive properties on tiles in different periods of time. (Open time : tensile adhesion strength)			
Open time : tensile adhesion strength after not less than 10 minutes.	EN 12004-2, Part 8.1 ISO 13007-2, Part 4.1	≥ 0.5 N/mm ²	> 2.0 N/mm ²
Extended open time : tensile adhesion strength after not less than 30 minutes.	EN 12004-2, Part 8.1 ISO 13007-2, Part 4.1	E ≥ 0.5 N/mm ²	> 1.5 N/mm ²
Tensile adhesion strength			
High initial tensile adhesion strength.	EN 12004-2, Part 8.3 ISO 13007-2, Part 4.4.4.2	C2 ≥ 1.0 N/mm ²	> 2.0 N/mm ²
High tensile adhesion strength after water immersion.	EN 12004-2, Part 8.3 ISO 13007-2, Part 4.4.4.3	C2 ≥ 1.0 N/mm ²	> 1.0 N/mm ²
High tensile adhesion strength after heat aging.	EN 12004-2, Part 8.3 ISO 13007-2, Part 4.4.4.4	C2 ≥ 1.0 N/mm ²	> 2.0 N/mm ²
Transverse deformation			
Highly deformable adhesives.	EN 12004-2, Part 8.6 ISO 13007-2, Part 4.5	S2 ≥ 5 mm	> 5 mm

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

- When installing extra-large tiles (3 meters or more), 2 or more tiles should not be installed together without joints. If it's needed to install 2 or more tiles together, joints should be made within 6 meters of the continuous tiles to create some gaps between the tiles.
 - Installation should use correct and appropriate tools.
- ** 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.