Crocodile Silver Premium Plus Grout

High Performance Unsanded Cement Grout



The first American Standard Tile Grout with Anti-Black Mold by Microban® Technology for General Tiles.

Crocodile Silver Premium Plus Grout is a fine-texture cementitious grout formulated with Portland cement, chemical additives, and high-performance pigments. Infused with Microban® antimicrobial technology, the grout provides long-lasting protection against microbial growth throughout the product's lifespan. The formulation also includes hydrophobic agents that help reduce water absorption and prevent deep-set stains on the grout surface. Enhanced with extra bond adhesion and other performance additives, the grout offers superior bonding strength, non-shrink properties, and long-lasting durability. Recommended for general tile grouting, suitable for both interior and exterior use such as kitchens, bathrooms, bedrooms, and balconies. Safe for users and occupants.

Product Features

- Anti-black mold with Microban® Technology.
- Hydrophobic agents reduce water absorption, which helps prevent deep-set stains.
- High bonding strength without cracking and non-shrinkage by latex polymers.
- Suitable for interior and exterior.
- Suitable for joint widths from 1 to 7 mm.

American Standard: ANSI A118.6 (Unsanded), A118.7 (Unsanded)

European Standard: EN 13888 Class CG2WA

International Standard: ISO 13007 Class CG2WA

Thai Industrial Standard: TIS 2892-2563 (2020) (Unsanded high performance cement grout)

Color: 38 colors

Pre-Grouting Preparation

- Joint width should be between 1-7 mm, and joint depth should not be less than two-thirds of the tile thickness.
- Grouting should be done at least 48 hours after tile installation, or once the tile adhesive has fully cured.
- Prior to grouting, ensure that the joints are clean and free from dust, dirt, debris, and any contaminants. Verify that there is no standing water in the joints.

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Mixing Ratio

Crocodile Silver Premium Plus Grout 1 kg (per bag) per 0.34 L of water or Crocodile Silver Premium Plus Grout 5 kg (per bag) per 1.70 L of water or Crocodile Silver Premium Plus Grout 3 parts per 1 part of water by volume.

Mixing

- Pour Crocodile Silver Premium Plus Grout into clean water according to the specified mixing ratio. Mix using a low-speed drill or manually with a clean trowel or spatula until a smooth, lump-free consistency is achieved.
- Allow the mixture to rest for approximately 5 minutes to enable the chemical reaction. Remix briefly before application.
- If the grout becomes too stiff or viscous due to extended standing time, do not add water to retemper. Discard the old mix and prepare a new batch.

Application

1. Using a rubber face trowel, apply the well-mixed grout diagonally across the joints to avoid pulling grout out. Remove excess grout from the tile surface with rubber face trowel as much as possible.
2. Allow the grout to set until it begins to cure, then clean the tile surface thoroughly using a damp cloth or sponge. After that, wipe the tile surface again with a dry cloth to remove any remaining grout residue.
3. Allow to dry for at least 72 hours before opening the area for use.

Curing

During the first 72 hours, cover the grout with natural kraft paper (brown paper typically used for bags or wrapping) to allow the grout to gradually cure and to protect the surface from dust or other contaminants. Plastic sheets or newspaper should not be used as a substitute for kraft paper.

Final Cleaning After Grouting

- After 10 days, clean the tile surface again to remove any remaining grout residue or haze. Use warm water mixed with soap, apply over the surface, let it sit briefly, then wipe off with a soft cloth or sponge.
- Avoid using strong acidic or corrosive cleaning agents, as they may cause grout deterioration or discoloration.
- If necessary, a diluted acid or Crocodile Cement Remover may be used to remove cement stains. Always test on a small, inconspicuous area first to prevent damage to the tile surface.
- Glossy coatings or stain removers should only be applied after the grout has fully cured for at least 30 days and should also be tested on a small area before full application.

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Coverage

Coverage per Kilogram (m²/kg) or per Bag of Grout (1 kg)					
Tile Dimensions (Width x Length x Thickness)		**Joint Widths**			
Unit : Inches	**Unit : Centimeters**	**2 mm**	**3 mm**	**5 mm**	**7 mm**
1" x 1" x 1/6"	2.5 x 2.5 x 0.4 cm	1.6	1.1	0.7	0.5
2" x 2" x 1/4"	5 x 5 x 0.6 cm	2.2	1.5	0.9	0.6
4" x 4" x 1/4"	10 x 10 x 0.6 cm	4.4	3.0	1.8	1.3
4" x 4" x 3/8"	10 x 10 x 1 cm	2.7	1.8	1.1	0.7
8" x 8" x 1/4"	20 x 20 x 0.6 cm	8.9	6.0	3.6	2.5
8" x 10" x 1/4"	20 x 25 x 0.6 cm	9.9	6.7	4.0	2.8
12" x 12" x 1/4"	30 x 30 x 0.6 cm	13.4	8.9	5.3	3.8
16" x 16" x 5/16"	40 x 40 x 0.8 cm	13.4	8.9	5.3	3.8
24" x 24" x 3/8"	60 x 60 x 1 cm	16.0	10.7	6.4	4.5

Remark: Actual consumption may vary depending on tile size, grout joint width and depth, substrate conditions, site conditions, and application methods.

Information

Density	1.08 g/cm^3
Slake time	5 minutes
Pot life at 23 ± 2 °C	45-60 minutes
Initial setting time	3 hours 30 minutes
Final setting time	6 hours
Waiting time before grouting, keep tile adhesive dry at least	48 hours
Waiting time before traffic, keep tile grout dry at least	72 hours
Joint width	1-7 mm

Remark: 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.

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Technical Data

American National Standards

ANSI Standard Property Requirements (American National Standards Institute)	Part of ANSI A118.7	Standard Requirements A118.7 (Unsanded)	Result
Linear shrinkage 28 days	Part 3.3	≤ 0.30%	< 0.30%
Water absorption 28 days	Part 3.4	≤ 5%	< 5%
Compressive strength 1 day 28 days	Part 3.5	> 500 psi > 3,000 psi	> 1,500 psi > 3,300 psi
Tensile strength 28 days	Part 3.6	> 500 psi	> 500 psi
Flexural strength 28 days	Part 3.7	> 1,000 psi	> 1,000 psi

Remark: 1 MPa = 1 N/mm^2 = 10.197 ksc = 145.038 psi

Thai Industrial Standards Institute

TIS 2892-2563 Performance Requirements (TIS for Cement Grout for Ceramic Tile)	Properties in Accordance with TIS 2892-2563 (2020)	Standard Requirements Unsanded High Performance	Result
Linear shrinkage 28 days	Requirement No.1	≤ 0.30%	< 0.30%
Water absorption 28 days	Requirement No.2	≤ 5%	< 5%
Compressive strength 1 day 28 days	Requirement No.3	≥ 3.4 MPa ≥ 20.7 MPa	> 10.3 MPa > 22.8 MPa
Tensile strength 28 days	Requirement No.4	≥ 3.4 MPa	> 3.4 MPa
Flexural strength 28 days	Requirement No.5	≥ 6.9 MPa	> 6.9 MPa

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European Standards and International Standards

EN and ISO Standard Property Requirements (European Standards / International Organization for Standardization)	Test Method of EN 13888 ISO 13007	Standard Requirements EN 13888 Class CG2WA ISO 13007 Class CG2WA	Result
Flexural strength under standard conditions at 28 days	EN 13888-2 Part 9.1 ISO 13007-4 Part 4.1.3	$\geq$ 2.5 N/mm^2	> 5 N/mm^2
Compressive strength under standard conditions at 28 days	EN 13888-2 Part 9.1 ISO 13007-4 Part 4.1.4	$\geq$ 15 N/mm^2	> 25 N/mm^2
Shrinkage at 28 days	EN 13888-2 Part 9.3 ISO 13007-4 Part 4.3	$\leq$ 3 mm/m	< 3 mm/m
(W) Reduced water absorption after 30 min	EN 13888-2 Part 9.2 ISO 13007-4 Part 4.2	$\leq$ 2 g	< 1 g
(W) Reduced water absorption after 240 min	EN 13888-2 Part 9.2 ISO 13007-4 Part 4.2	$\leq$ 5 g	< 2 g
(A) High abrasion resistance	EN 13888-2 Part 9.4 ISO 13007-4 Part 4.4	$\leq$ 1,000 mm^3	< 300 mm^3

Remark: 1 MPa = 1 N/mm^2 = 10.197 ksc = 145.038 psi

Caution

- Not recommended for areas exposed to strong chemicals or acids on a regular basis.
- Dark-colored grout (e.g., Natural Grey, Grey, Quantum Grey, Onyx Grey, Sapphire) may exhibit slight color variations due to the natural characteristics of raw materials used in the formulation. Please consult our technical support team for application advice.
- May cause irritation to the eyes, skin, or respiratory system. Wear appropriate protective clothing, gloves, and eye/face protection.
- In case of eye contact, rinse immediately with plenty of water and seek medical advice.
- If skin or face contact occurs, wash immediately with soap and water.
- Keep out of reach of children.
- Do not ingest.

Storage Conditions

- The product should be stored in a shaded, dry, and moisture-free area with good ventilation. Avoid areas with excessively high temperatures, as this may cause product degradation.
- The product has a shelf life of 1 year from the manufacturing date, provided it is stored in a tightly sealed, undamaged, and unopened package.
- If the product is not completely used, always reseal it tightly after each use. Please note that the remaining shelf life may be reduced depending on storage conditions.

Packing

Net weight: 1 kg bag, packed 20 bags per box (20 kg total), and 5 kg bag, packed 4 bags per box (20 kg total).

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Legal Disclaimer

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