

INSEE TileGrout GUARD NANO

Premium quality anti-black mold tile grout for gap size 0.2-5 mm. (CG2WA)

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is a premium quality tile grout suitable for large ceramic, granite, granito and swimming pool tiles. It can be used for wall and floor tiles, both indoor and outdoor, including areas requiring high durability conditions

Advantages

- High quality in compliance with ISO CG2, anti-mold and anti-bacteria by Biocide
- UV resistant and colour stable
- Chemical and acid resistant
- No VOCs
- Hydrophobic Technology for dirt and stains reduction
- Deep penetration for narrow gap size of 0.2-5 mm
- Reduce Efflorescence
- ISO 13007-3 CG2WA, ISO 13007-4, EN13888-CG2WA, ANSI A118.6, ANSI A118.7

Applications

For grouting all types of wall and floor tiles, outdoor and indoor, grout for narrow gap size of 0.2-5 mm.

Mixing Ratio

1 kg of INSEE TileGrout (1 bag) per 0.34 liter of water or 2.6 parts of INSEE TileGrout per 1 part of water

Surface preparation

Remove dust, water, or material blocking the gaps. INSEE TileGrout can be applied 24-48 hours after tiling, depending on jobsite conditions.

Mixing

Slowly add INSEE TileGrout into water following the recommended mixing ratio and mix for 2-3 minutes until homogeneous. Allow for 5 minutes before using. Do not add additional water. Use within 30 minutes.

Instructions

1. Apply on tile gaps. Use a rubber trowel to press and fully fill the gaps, then remove excess grout.
2. Leave the surface to dry and use a damp sponge to wipe the stain. Allow 2 hours of drying time.
3. Clean again by clean & damp cloth.
4. Protect the area from dust. Allow 6 hours of setting time before using the area.



Available in 8 colours



Remark : Colour may different from job site

Packaging

1 kg/pack, 20 packs/carton.

Storage & Shelf life

Store in dry place. Avoid moisture and direct sunlight. An unopened package has a shelf life of 1 year from manufacturing date.

Cautions

- Wear protective equipment when applying. In case of allergies, clean with soap and water immediately. If symptoms persist, consult a doctor.
- In case of eye contact, flush with clean water several times and seek medical help.
- Do not eat, keep out of the reach of children.
- Do not use with the area frequently exposed to acids.

Recommendations

- Read instructions and apply strictly for efficient result.
- Mixing temperature and application should be between 20-35 degrees Celsius.

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Coverage rate : 1 bag of INSEE TileGrout can cover areas as shown in the table below.

Tile Size		Depth	Coverage Rate (m ²)	Width (mm)				
(cm x cm)	(inch x inch)	(mm)		0.2	0.5	1	2	3
30x60	12x24	8	62.5	25.0	12.5	6.3	4.2	
40x40	16x16	8	62.5	25.0	12.5	6.3	4.2	
40x60	16x24	8	75.0	30.0	15.0	7.5	5.0	
60x60	24x24	8	93.8	37.5	18.8	9.4	6.3	
60x120	24x48	8	125.0	50.0	25.0	12.5	8.3	
80x80	32x32	8	125.0	50.0	25.0	12.5	8.3	
100x100	40x40	8	156.3	62.5	31.3	15.6	10.4	
120x120	48x48	8	187.5	75.0	37.5	18.8	12.5	

Result is based on calculation. It may differ from actual use at job sites.

Use Information

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Bulks Density	1.1 gm/cm ³
Gap Width	0.2-5 mm
Slake Time	5 min
Pot Life (In Shade @ 25°C)	30 min
Grouting Time after Tile Adhesive Cured	24-48 hours
Curing Time before Traffic	6 hours

Information above is on control room checks. Results may differ depending on ambient temperature and other factors e.g. installation, etc.

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Technical Properties

Standard ISO 13007-4	ISO 13007-3 CG1, CG2	Results
Flexural Strength at 28 days	$\geq 2.5 \text{ N/mm}^2$	$\geq 2.5 \text{ N/mm}^2$
Compressive Strength at 28 days	$\geq 15 \text{ N/mm}^2$	$\geq 15 \text{ N/mm}^2$
Linear Shrinkage at 27 days	$\leq 3 \text{ mm/m}$	$\leq 3 \text{ mm/m}$
Water absorption after		
30 min	$\leq 2 \text{ gm}$	$\leq 2 \text{ gm}$
240 min	$\leq 5 \text{ gm}$	$\leq 5 \text{ gm}$
Abrasion resistance	$\leq 1000 \text{ mm}^3$	$\leq 1000 \text{ mm}^3$
Standard ANSI A118.6, A118.7	ANSI A118.6, A118.7 (Unsanded Grout)	Results
Linear Shrinkage at 27 days	$< 0.30\%$	$< 0.30\%$
Water absorption (50% R.H. to immersion)	$< 5\%$	$< 5\%$
Compressive Strength at		
1 day	$> 500 \text{ psi}$ (3.4 N/mm^2)	$> 500 \text{ psi}$ (3.4 N/mm^2)
28 days	$> 3000 \text{ psi}$ (20.7 N/mm^2)	$> 3000 \text{ psi}$ (20.7 N/mm^2)
Tensile Strength at 28 days	$> 500 \text{ psi}$ (3.4 N/mm^2)	$> 500 \text{ psi}$ (3.4 N/mm^2)
Flexural Strength at 28 days	$> 1000 \text{ psi}$ (6.8 N/mm^2)	$> 1000 \text{ psi}$ (6.8 N/mm^2)