



MAPEI Flexcolor™ CQ

Ready-to-Use Grout with Color-Coated Quartz



DESCRIPTION

MAPEI Flexcolor CQ is a professional-grade, ready-to-use specialty grout for precision commercial and residential installations with porcelain, ceramic and natural-stone tiles. MAPEI Flexcolor CQ can be used to grout interior/ exterior tile and incorporates DropEffect™ technology, which helps to prevent water-based stains by providing water repellency to the grout surface. MAPEI Flexcolor CQ is formulated with the latest innovation in quartz aggregate, which ensures color consistency, ease of cleanability and improved workability. In addition, this grout can be used on sensitive tile surfaces once tested, requires no sealer and cures naturally from evaporation/dehydration.

FEATURES AND BENEFITS

- Stain- and chemical-resistant grout formulation with no sealing required
- Easy cleanability, color consistency and improved workability
- Dries to a hard, uniform color surface in 24 hours and will not stain surfaces
- Crack-resistant and shrinkage-controlled formulation, with no efflorescence
- BioBlock® technology for mold and mildew resistance
- Is used straight from the pail, without the need to add water
- Specialized pail design with flip-top hinged lid

INDUSTRY STANDARDS AND APPROVALS

- ANSI: Although ready-to-use grouts do not yet have ANSI requirements, MAPEI Flexcolor CQ meets or exceeds specific tests in ANSI A118.3, A118.6 and A118.7 covering other grout types.

LEED Points Contribution

LEED Points

- MR Credit 5, Regional Materials* Up to 2 points
- IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants 1 point
- IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems 1 point

* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

- For grout joints from 1/16" to 1/2" (1,5 to 12 mm)
- Use for grouting interior and exterior floor, walls, countertops and backsplashes.
- Use for glass tile/mosaics as well as porcelain, ceramic and natural-stone tile (such as granite, travertine, slate, marble and polished marble), quarry, and cement-based terrazzo.
- Use for grouting intermittent wet conditions such as bathtub surrounds, shower walls and shower floors.
- Use for interior/exterior commercial and residential installations under Res 1, 2, 3 and 6 and Com 1, 2, 3 and 6 per TCNA Environmental Classifications. MAPEI Flexcolor CQ is not for installations in submerged areas or areas hotter than 125°F (52°C).

LIMITATIONS

- Use only at temperatures between 50°F and 95°F (10°C and 35°C). Drying time will vary depending on temperature, humidity, tile porosity and grout joint depth/width.



- MAPEI Flexcolor CQ cures faster in lower humidity conditions (less than 50% is ideal).
- Do not use in water submersion installations such as pools and hot tubs.
- Do not use in steam rooms.
- Do not use in areas exposed to high heat ($\geq 125^{\circ}\text{F}$ [52°C]) such as areas near fireplaces or wood stoves.
- Some types of sensitive tiles such as glass mosaic or marble can be permanently stained, scratched, dulled or damaged when grouting. Always test the grout on a separate sample area before grouting to determine the suitability of the tile with the grout color selected.
- Do not use for distressed or tumbled travertine if grout is not wanted to fill the pits in the tile.

Note: Consult MAPEI's Technical Services Department for recommendations regarding installation over substrates and conditions not listed.

SURFACE PREPARATION

- Before grouting, make sure that tiles are firmly set and the adhesive or mortar is completely dry.
- Remove all tile spacers.
- Grout joints must be clean and free of standing water, dust, dirt and foreign matter.
- Remove excess adhesive or mortar from the joint area so that 2/3 of the tile depth is left available for grouting.
- Clean the tile surface thoroughly to remove dust, dirt and other contaminants that may cause grout discoloration.
- See MAPEI's "Surface Preparation Requirements" document in the Product Information section of the Tile & Stone Installation Systems page on MAPEI's Website.

MIXING

Note: Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for more information.

- No mixing is required.

PRODUCT APPLICATION

Note: Using consistent application procedures will produce consistent results.

1. To aid in spreading the grout, slightly moisten the tile surface with a damp, rounded grout sponge just before application.
2. Force the grout into the joints with a medium- to hard-rubber float held at a 45° angle to the tile surface.
3. Make sure all joints are well-compacted and are free of voids and gaps.

4. Remove excess grout from the tile surface, holding the float at an almost 90° angle to the surface and moving the float diagonally to the joints while the grout is still fresh.
5. The grout surface should be flush with the tile edge.

CLEANUP

1. Cleaning should begin after the surface develops a dry, skinned-over appearance – within 5 to 10 minutes, depending upon the temperature, humidity and absorption rate of the tile. Grout small areas of between 20 to 30 sq. ft. ($1,86$ to $2,79$ m^2) at a time, so that cleaning can begin before the grout skins over and dries on the tile surface.
2. Move a moderately damp, rounded grout sponge across the tile surface in a circular motion to loosen grout and to shape the joints. Drag a clean and moderately damp sponge diagonally across the tile joints, applying slight pressure. Use one side of the sponge for each pass over the tile, rinsing the sponge after the second pass.

Note: Under certain conditions, a milky film can appear on the grout surface. This film will dissipate in 20 to 30 minutes after the washing step is completed.

3. Change the water bucket frequently to prevent the development of a haze on the tile surface.
4. If residue is observed on the tile surface, a final wash can be performed (if needed) about 1 hour after the initial wash. If needed in the cleaning process, add 1 U.S. oz. (30 mL) of a clear dishwashing soap to a pail containing 3 U.S. gals. (11,4 L) of clean water; then use a clean, white, moistened scrub pad to loosen any remaining grout residue and a moistened sponge to remove the residue.
5. If joints are not fully flush, MAPEI Flexcolor CQ can be re-applied after 24 hours of drying by repeating steps 1 through 4 above. The product will bond to itself.
6. Clean tools and the surface with fresh water while the product is wet.

PROTECTION AND MAINTENANCE

- Light foot traffic is acceptable 24 hours after grouting.
- To develop stain resistance and for a full cure, allow 3 days before water exposure.
- Protect the product from freezing.
- Although sealing is not required, MAPEI's UltraCare™ products can be used for care and maintenance of the grout surface. MAPEI's UltraCare water-based products are fully compatible with MAPEI Flexcolor CQ. Before applying any UltraCare products, wait for 6 to 7 days after the installation of MAPEI Flexcolor CQ.



ANSI Specification

Test Method	Specification Standard	Test Results
ANSI A118.3, chemical resistance (ASTM C267)	Confirm to ASTM C267	Pass (see table below)
ANSI A118.3, vertical sag in joints	No noticeable change in joint shape	Pass
ANSI A118.3, cleanability	ANSI A118.3	Pass
ANSI A118.6* compressive strength	CG2 (cement grouts): > 3,500 psi (24,1 MPa) at 28 days	4,922 psi (33,9 MPa)
Abrasion (Gabbrielli Abrasimeter) – modified ISO 13007-4 method	CG2 (cement grouts): ≤ 1 000 mm ³	7 days ≤ 450 mm ³ 28 days ≤ 400 mm ³
Water absorption (TCNA method)	14 days at 73°F (23°C) – 2 days in water	Pass

* Modified ANSI method: 28 days at 73°F (23°C) in a grout joint

Chemical Resistance (ASTM C267)**

Ammonia	Pass
Bleach	Pass
Potassium hydroxide 3%	Pass
Acetic acid 3%	Pass
Acetic acid 10%	Pass
Ammonium chloride	Pass
Citric acid 3%	Pass
Citric acid 10%	Pass
Lactic acid	Pass
Phosphoric acid 3%	Pass
Phosphoric acid 10%	Pass
Sulfamic acid 3%	Pass
Sulfamic acid 10%	Pass
Hydrochloric acid 3%	Pass
Hydrochloric acid 10%	Pass
Sulfuric acid 3%	Pass

** Testing conducted after 28-day full cure, with 24-hour full immersion

Application Properties at 73°F (23°C) and 50% relative humidity

Shelf life	2 years if unopened; 1 year if opened but stored with sealed lid
Colors	26 designer colors available
Hardness at 72 hours (Shore A)	85
Light foot traffic (24 hours after installation)	Pass
Normal foot traffic (48 hours after installation)	Pass
Commercial/heavy foot traffic, after 6 to 7 days	Pass
Foot traffic rating (ASTM C627)	Passed both residential and commercial ratings
Odor	Slight latex odor, with no ammonia smell
VOCs (Rule #1168 of California's SCAQMD)	44 g per L

Packaging

Product Code†	Size
5XX01	Pail: 1 U.S. gal. (3,79 L)
5XX02	Pail: 2 U.S. gals. (7,57 L)

† For the "XX" portion of each product code, use the two-digit number of the desired grout color.

Approximate Coverage* per 1 U.S. gal. (3,79 L)

Tile Size	Grout Joint Width					
	1/16" (1,5 mm)	1/8" (3 mm)	3/16" (4,5 mm)	1/4" (6 mm)	3/8" (10 mm)	1/2" (12 mm)
2" x 2" x 1/4" (50 x 50 x 6 mm)	90 to 100 sq. ft. (8,36 to 9,29 m ²)	46 to 52 sq. ft. (4,27 to 4,83 m ²)	30 to 33 sq. ft. (2,79 to 3,07 m ²)	24 to 28 sq. ft. (2,23 to 2,60 m ²)	18 to 22 sq. ft. (1,67 to 2,04 m ²)	12 to 14 sq. ft. (1,11 to 1,30 m ²)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	200 to 220 sq. ft. (18,6 to 20,4 m ²)	100 to 110 sq. ft. (9,29 to 10,2 m ²)	66 to 73 sq. ft. (6,13 to 6,78 m ²)	48 to 54 sq. ft. (4,46 to 5,02 m ²)	38 to 42 sq. ft. (3,53 to 3,90 m ²)	24 to 28 sq. ft. (2,23 to 2,60 m ²)
6" x 6" x 1/4" (150 x 150 x 6 mm)	270 to 300 sq. ft. (25,1 to 27,9 m ²)	134 to 150 sq. ft. (12,4 to 13,9 m ²)	90 to 100 sq. ft. (8,36 to 9,29 m ²)	68 to 76 sq. ft. (6,32 to 7,06 m ²)	50 to 56 sq. ft. (4,65 to 5,20 m ²)	34 to 38 sq. ft. (3,16 to 3,53 m ²)
8" x 8" x 3/8" (200 x 200 x 10 mm)	236 to 260 sq. ft. (21,9 to 24,2 m ²)	118 to 130 sq. ft. (11,0 to 12,1 m ²)	78 to 87 sq. ft. (7,25 to 8,08 m ²)	60 to 66 sq. ft. (5,57 to 6,13 m ²)	44 to 50 sq. ft. (4,09 to 4,65 m ²)	30 to 32 sq. ft. (2,79 to 2,97 m ²)
12" x 12" x 3/8" (300 x 300 x 10 mm)	340 to 380 sq. ft. (31,6 to 35,3 m ²)	172 to 190 sq. ft. (16,0 to 17,7 m ²)	113 to 127 sq. ft. (10,5 to 11,8 m ²)	86 to 96 sq. ft. (7,99 to 8,92 m ²)	64 to 72 sq. ft. (5,95 to 6,69 m ²)	42 to 48 sq. ft. (3,90 to 4,46 m ²)

Approximate Coverage* per 2 U.S. gals. (7,57 L)

Tile Size	Grout Joint Width					
	1/16" (1,5 mm)	1/8" (3 mm)	3/16" (4,5 mm)	1/4" (6 mm)	3/8" (10 mm)	1/2" (12 mm)
2" x 2" x 1/4" (50 x 50 x 6 mm)	180 to 200 sq. ft. (16,7 to 18,6 m ²)	92 to 104 sq. ft. (8,55 to 9,66 m ²)	60 to 66 sq. ft. (5,57 to 6,13 m ²)	48 to 56 sq. ft. (4,46 to 5,20 m ²)	36 to 44 sq. ft. (3,34 to 4,09 m ²)	24 to 28 sq. ft. (2,23 to 2,60 m ²)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	400 to 440 sq. ft. (37,2 to 40,8 m ²)	200 to 220 sq. ft. (18,6 to 20,4 m ²)	132 to 146 sq. ft. (12,3 to 13,6 m ²)	96 to 104 sq. ft. (8,92 to 9,66 m ²)	76 to 84 sq. ft. (7,06 to 7,80 m ²)	48 to 56 sq. ft. (4,46 to 5,20 m ²)
6" x 6" x 1/4" (150 x 150 x 6 mm)	540 to 600 sq. ft. (50,2 to 55,7 m ²)	268 to 300 sq. ft. (24,9 to 27,9)	180 to 200 sq. ft. (16,7 to 18,6 m ²)	136 to 152 sq. ft. (12,6 to 14,1 m ²)	100 to 112 sq. ft. (9,29 to 10,4 m ²)	68 to 76 sq. ft. (6,32 to 7,06 m ²)
8" x 8" x 3/8" (200 x 200 x 10 mm)	472 to 520 sq. ft. (43,9 to 48,3 m ²)	236 to 260 sq. ft. (21,9 to 24,2 m ²)	156 to 174 sq. ft. (14,5 to 16,2 m ²)	120 to 132 sq. ft. (11,1 to 12,3 m ²)	88 to 100 sq. ft. (8,18 to 9,29 m ²)	60 to 64 sq. ft. (5,57 to 5,95 m ²)
12" x 12" x 3/8" (300 x 300 x 10 mm)	680 to 760 sq. ft. (63,2 to 70,6 m ²)	344 to 380 sq. ft. (32,0 to 35,3 m ²)	226 to 254 sq. ft. (21,0 to 23,6 m ²)	172 to 192 sq. ft. (16,0 to 17,8 m ²)	128 to 144 sq. ft. (11,9 to 13,4 m ²)	84 to 96 sq. ft. (7,80 to 8,92 m ²)

* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to actual tile size and thickness, exact joint width, job conditions and grouting methods. Consult MAPEI's Technical Services Department or use the grout calculator at www.mapei.com for approximate coverage not shown.

Refer to the SDS for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.

We proudly support the following industry organizations:



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