



Ultracolor Plus®

Premium, Rapid-Setting Sanded Grout with Polymer



DESCRIPTION

Ultracolor Plus with DropEffect™ technology is an ultra premium, fast-setting, polymer-modified, color-consistent, nonshrinking, efflorescence-free grout for joint widths from 1/16" to 1" (1,5 mm to 2,5 cm). DropEffect technology reduces surface absorption to help repel water, dirt and grime from penetrating grout joints. Ultracolor Plus is specially formulated with MAPEI's High-Hydrated Cement Technology (HCT™) to eliminate the common problems related to Portland-cement grout, such as color consistency and efflorescence.

FEATURES AND BENEFITS

- Rapid-setting
- For interior/exterior floors and walls
- BioBlock™ mold and mildew resistance

INDUSTRY STANDARDS AND APPROVALS

ISO 13007: Classification CG2WAF

ANSI: Meets or exceeds ANSI A118.6 and A118.7 industry standards

<u>LEED Points Contribution</u>	<u>LEED Points</u>
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 grouting interior/exterior residential and commercial floor and wall surfaces in dry or wet conditions
- For grouting dimensional stone, slate, granite, stone agglomerates and most types of ceramic, ceramic mosaic, quarry, brick paver, porcelain, glass and clay tiles
- For joint widths from 1/16" to 1" (1,5 mm to 2,5 cm)
- For use where grout will be exposed to foot traffic within 3 to 4 hours
- For application in submerged conditions (swimming pools, spas, water features and fountains), in approximately 3 to 4 days.

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not use when a highly chemical-, impact- and stain-resistant grout is required or in heavy industrial tile installations. Instead, use an appropriate MAPEI epoxy grout (see the respective TDS for details).
- When grouting in temperatures above 80°F (26°C), see the Technical Bulletins at www.mapei.com or consult MAPEI's Technical Services Department.

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



SURFACE PREPARATION

- Certain tiles with high absorption, surface porosity or rough surfaces may require sealing before grouting to prevent permanent staining.
- The application of a grout release over certain types of porcelain or textured surface tiles or stone may be advantageous where a fine surface porosity might trap fine cement particles or color pigments. Seek the advice of the tile or stone manufacturer and site-test (mockup) on separate samples before grouting.
- Caution: Some types of glazed ceramic tiles, marble, granite and marble agglomerates can be permanently stained, scratched, dulled or damaged when grouted with pigmented grout or sanded grout formulas. Generally, white grout is best suited for grouting white or light-colored marble or granite. Take all the necessary precautions to ensure that the marble, granite or tiles are compatible with colored grouts. Check the tile or marble manufacturer's literature and test grout on a separate sample area before grouting to determine the suitability of the product with colored and/or sanded grouts.
- Before grouting, make sure that the tiles or stones are firmly set and that the adhesive or mortar is completely dry.
- Remove all spacers, pegs, ropes and strings.
- 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 depth of the tile is left available for grouting.
- Clean the tile or stone surface thoroughly to remove dust, dirt and other contaminants that may cause grout discoloration.
- Refer to MAPEI's Surface Preparation Requirements document for tile and stone installation systems at www.mapei.com.

MIXING

Note: Choose all appropriate safety equipment before use. Refer to MSDS for more information.

1. For best results, have the same person mix all of the grout. Consistent mixing techniques will promote more uniform results.
2. Before mixing the grout with water, dry-blend the product to avoid color variations in the finished grout, which may arise from pigment settling during shipment. If two or more bags are to be used, dry-blend all of the contents together.

3. Mix *Ultracolor Plus* with cool, clean water only. Do not mix with grout additives. Mix by using the following water-to-grout proportions:

<u>Water</u>	<u>Ultracolor Plus powder</u>
22 to 29 U.S. oz. (651 to 857 mL)	10 lbs. (4,54 kg)
2 to 2.25 U.S. qts. (1,89 to 2,13 L)	25 lbs. (11,3 kg)

4. Pour the required measured amount of clean, cool water into a clean mixing container. Gradually add the proportionate amount of *Ultracolor Plus* while slowly mixing. To avoid shade variation of the finished joint, always add the powder to the water while being consistent in the mixing process and the quantity of water used from batch to batch.
5. Mix thoroughly with a low-speed mixer (at about 350 rpm) for about 3 to 5 minutes, or until obtaining a smooth, creamy, homogenous paste consistency and a uniform shading of the colored grout.
6. Avoid air entrapment from prolonged mixing, which will shorten the pot life.
7. Allow the grout to sit ("slake") in the container for about 2 to 3 minutes.
8. Remix for about 30 seconds without adding more liquid or powder.
9. Wash hands and mixing tools with water immediately after mixing.

PRODUCT APPLICATION

1. Read all installation instructions thoroughly before installation.
2. Use only at temperatures between 50°F and 100°F (10°C and 38°C).
3. Using consistent application and cleaning procedures will produce consistent results.
4. To aid in spreading the grout, slightly moisten the tile or stone surface with a damp sponge just before application. Do not flood the tiles or allow water to stand in the ungrouted joint areas.
5. Force *Ultracolor Plus* into the joints with a rubber grout float. Make sure all joints are well-compacted and free of voids and gaps.
6. Remove excess grout from the tile surface, moving the grout float diagonally to the joints while the *Ultracolor Plus* is still fresh.
7. The grout surface should be flush with the tile edge.
8. Some stiffening may occur before all material is used (usually within about 1 hour at room temperature). If this occurs, simply remix but do not add more liquid.

9. Provide for expansion and control joints as specified per TCNA Detail EJ171 or TTMAC Specification Guide 09300, Detail 301EJ.
10. Allow the *Ultracolor Plus* to firm up in the joints sufficiently to avoid damaging the grout surface – usually in 15 to 30 minutes, depending upon the temperature, humidity and absorption rate of the tile or stone.
11. Use two buckets of cleaning water: one for rinsing the majority of the grout residue from the grout sponge, and one for moistening the sponge in clean water.
12. Dip the sponge in a bucket of water and wring out the excess, so that the sponge does not drip water. Using very little pressure, pull the sponge diagonally across the grout joints to remove the excess grout from the tile surface. Also use the sponge to smooth the surface of the grout joint. Turn the sponge over and make another pass in an adjacent area. After using both sides, rinse the sponge in one bucket and wring out the excess water. Dip the sponge in the second bucket of water, wringing out the excess and continue the process.
13. Change the water in the buckets frequently to help limit the amount of haze that forms on the tile or stone surface.
14. To prevent discoloration and soft/powdery joints, avoid cleaning with excessive water.
15. To control color variations, buff the grouted surface with cheesecloth or a clean, dry cotton cloth when a haze is visible on the tile surface, usually 30 to 60 minutes after grouting. This should remove any remaining surface water or grout residue.
16. Clean hands and tools with clean, soapy water while grout is fresh.
17. Never use acid for cleaning marble, glazed tile or pigmented grout surfaces. If a persistent haze remains after normal cleaning, see the Technical Bulletins at www.mapei.com or consult MAPEI's Technical Services Department.

PROTECTION

1. Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
2. Keep installation from immersion in water and protect from rain and freezing for at least 72 hours after completion.
3. Floors: Keep free from heavy traffic for at least 3 hours after grouting.
4. Walls: Protect from impact, vibration and hammering on adjacent and opposite walls for 14 days after tile installation (see the TDS of the adhesive or setting system for details).
5. Because temperature and humidity (during and after installation of tile) affect the final curing time of all cement-based materials, allow for extended periods of cure and protection when temperatures drop below 60°F (16°C) and/or when the relative humidity is higher than 70%.

MAINTENANCE

- Grout must be fully cured before regular cleaning.
- MAPEI grout products are produced to the highest quality of standards. To maintain a clean tile surface, use a neutral-pH cleaner for maintaining the floor, followed by a clean-water rinse.
- Do not use harsh chemicals to maintain the tile surface. Before proceeding with cleaning, consult the cleaner's manufacturer for compatibility, use and application instructions. Remove or rinse fatty acid residue from the grout surface to avoid potential grout deterioration caused by prolonged exposure.
- Grout may be sealed with a penetrating silicone-based grout sealer according to the sealer manufacturer's instructions.

Product Performance Properties

ISO 13007 Classification

Classification Code	Classification Requirement
CG2 (cementitious grout, improved)	≤ 0.20% shrinkage in 28 days
W (reduced water absorption)	≤ 5 g after 4 hours
A (high abrasion resistance)	≤ 1,000 mm ³
F (rapid-setting)	≥ 2,175 psi (15 MPa) after 24 hours

ANSI Specification

Testing Type	Test Method	Results	ANSI Specification
Compression	ANSI A118.6	3,500 to 5,500 psi (24,1 to 37,9 MPa) at 28 days	3,500 psi (24,1 MPa) at 28 days
Shrinkage	ANSI A118.6	< 0.03% (1 day) < 0.10% (7 days)	< 0.03% (1 day) < 0.10% (7 days)
Tensile strength	ANSI A118.7	500 to 600 psi (3,45 to 4,14 MPa) at 28 days	500 psi (3,45 MPa) at 28 days
Water absorption	ANSI A118.7	< 5% (50% relative humidity to immersion) < 7% (immersion to dry)	< 5% (50% relative humidity to immersion) < 7% (immersion to dry)
Flexural strength	ANSI A118.7	1,000 to 1,400 psi (6,90 to 9,66 MPa) at 7 days	1,000 psi (6,90 MPa) at 7 days

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

Pot life	30 minutes to 1 hour
Compressive strength at 3 hours	> 2,000 psi (13,8 MPa)
Compressive strength at 28 days	> 5,500 psi (37,9 MPa)
VOCs (Rule #1168 of California's SCAQMD)	0
Shelf life	1 year

* Cold temperature or high humidity may alter these properties.

Packaging

Product Code [†]	Size
6XX0521	Bag: 5 lbs. (2,27 kg), Canada only
6XX10000	Bag: 10 lbs. (4,54 kg)
6XX25000	Bag: 25 lbs. (11,3 kg)

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

Approximate Product Coverage*

**Ultracolor[®]
Plus**

Per 10 lbs. (4,54 kg). Coverages in sq. ft. (m ²).								
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)	5/8" (16 mm)	1" (2,5 cm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	36 (3,34)	18 (1,67)	12 (1,11)	9 (0,84)	5 (0,46)	4 (0,37)	3 (0,28)	2 (0,19)
2" x 2" x 1/4" (50 x 50 x 6 mm)	74 (6,88)	37 (3,44)	25 (2,32)	18 (1,67)	12 (1,11)	9 (0,84)	7 (0,65)	4,5 (0,42)
3" x 3" x 1/4" (75 x 75 x 6 mm)	114 (10,6)	57 (5,30)	37 (3,44)	28 (2,60)	18 (1,67)	13 (1,21)	11 (1,02)	6 (0,56)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	162 (15,1)	81 (7,53)	53 (4,92)	40 (3,72)	26 (2,42)	19 (1,77)	15 (1,39)	10 (0,93)
4" x 8" x 1/2" (100 x 200 x 12 mm)	102 (9,48)	51 (4,74)	34 (3,16)	25 (2,32)	17 (1,58)	12 (1,11)	10 (0,93)	6 (0,56)
6" x 6" x 1/4" (150 x 150 x 6 mm)	228 (21,2)	114 (10,6)	76 (7,06)	57 (5,30)	37 (3,44)	28 (2,60)	22 (2,04)	14 (1,30)
6" x 6" x 1/2" (150 x 150 x 12 mm)	114 (10,6)	57 (5,30)	38 (3,53)	28 (2,60)	19 (1,77)	14 (1,30)	11 (1,02)	6 (0,56)
8" x 8" x 3/8" (200 x 200 x 10 mm)	204 (19,0)	102 (9,48)	68 (6,32)	51 (4,74)	33 (3,07)	25 (2,32)	20 (1,86)	12 (1,11)
12" x 12" x 3/8" (300 x 300 x 10 mm)	306 (28,4)	153 (14,2)	101 (9,38)	76 (7,06)	51 (4,74)	38 (3,53)	30 (2,79)	18 (1,67)
13" x 13" x 3/8" (330 x 330 x 10 mm)	332 (30,8)	166 (15,4)	110 (10,2)	83 (7,71)	55 (5,11)	41 (3,81)	33 (3,07)	20 (1,86)
16" x 16" x 3/8" (406 x 406 x 10 mm)	408 (38,0)	204 (19,0)	136 (12,6)	102 (9,48)	68 (6,32)	51 (4,74)	40 (3,72)	24 (2,23)
18" x 18" x 3/8" (457 x 457 x 10 mm)	460 (42,8)	230 (21,4)	153 (14,2)	115 (10,7)	76 (7,06)	57 (5,30)	45 (4,18)	28 (2,60)
20" x 20" x 3/8" (508 x 508 x 10 mm)	512 (47,6)	256 (23,8)	170 (15,8)	128 (11,9)	85 (7,90)	63 (5,85)	51 (4,74)	30 (2,79)
24" x 24" x 3/8" (610 x 610 x 10 mm)	614 (57,0)	307 (28,5)	204 (19,0)	153 (14,2)	102 (9,48)	76 (7,06)	61 (5,67)	38 (3,53)

Per 25 lbs. (11,3 kg). Coverages in sq. ft. (m ²).								
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)	5/8" (16 mm)	1" (2,5 cm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	90 (8,36)	45 (4,18)	29 (2,69)	22 (2,04)	14 (1,30)	10 (0,93)	7 (0,65)	5 (0,46)
2" x 2" x 1/4" (50 x 50 x 6 mm)	186 (17,3)	93 (8,64)	61 (5,67)	45 (4,18)	29 (2,69)	22 (2,04)	17 (1,58)	10 (0,93)
3" x 3" x 1/4" (75 x 75 x 6 mm)	284 (26,4)	142 (13,2)	93 (8,64)	69 (6,41)	45 (4,18)	33 (3,07)	26 (2,42)	15 (1,39)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	404 (37,6)	202 (18,8)	134 (12,4)	99 (9,20)	65 (6,04)	48 (4,46)	38 (3,53)	25 (2,32)
4" x 8" x 1/2" (100 x 200 x 12 mm)	254 (23,6)	127 (11,8)	84 (7,80)	63 (5,85)	42 (3,90)	31 (2,88)	25 (2,32)	15 (1,39)
6" x 6" x 1/4" (150 x 150 x 6 mm)	570 (53,0)	285 (26,5)	190 (17,7)	142 (13,2)	93 (8,64)	69 (6,41)	55 (5,11)	35 (3,25)
6" x 6" x 1/2" (150 x 150 x 12 mm)	286 (26,6)	143 (13,3)	95 (8,83)	71 (6,60)	47 (4,37)	35 (3,25)	28 (2,60)	15 (1,39)
8" x 8" x 3/8" (200 x 200 x 10 mm)	510 (47,4)	255 (23,7)	169 (15,7)	126 (11,7)	84 (7,80)	62 (5,76)	50 (4,65)	30 (2,79)
12" x 12" x 3/8" (300 x 300 x 10 mm)	766 (71,2)	383 (35,6)	253 (23,5)	191 (17,7)	126 (11,7)	94 (8,73)	75 (6,97)	45 (4,18)
13" x 13" x 3/8" (330 x 330 x 10 mm)	830 (77,2)	415 (38,6)	275 (25,5)	207 (19,2)	137 (12,7)	102 (9,48)	82 (7,62)	50 (4,65)
16" x 16" x 3/8" (406 x 406 x 10 mm)	1,020 (94,8)	510 (47,4)	340 (31,6)	255 (23,7)	169 (15,7)	126 (11,7)	101 (9,38)	60 (5,57)
18" x 18" x 3/8" (457 x 457 x 10 mm)	1,150 (107)	575 (53,4)	383 (35,6)	288 (26,8)	191 (17,7)	142 (13,2)	114 (10,6)	70 (6,50)
20" x 20" x 3/8" (508 x 508 x 10 mm)	1,280 (119)	640 (59,5)	425 (39,5)	320 (29,7)	212 (19,7)	159 (14,8)	126 (11,7)	75 (6,97)
24" x 24" x 3/8" (610 x 610 x 10 mm)	1,536 (143)	768 (71,3)	510 (47,4)	383 (35,6)	255 (23,7)	191 (17,7)	152 (14,1)	95 (8,83)

Ultracolor[®] Plus



RELATED DOCUMENTS

Grout Cleaning	041101-TB*
How to Install Grout in Hot Weather	010404-TB*

* At www.mapei.com.

Refer to MAPEI's Material Safety Data Sheet (MSDS) 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:



MAPEI Headquarters of the Americas
 1144 East Newport Center Drive
 Deerfield Beach, Florida 33442
 Phone: 1-888-US-MAPEI
 (1-888-876-2734)

Technical Services
 1-800-992-6273 (U.S. and Puerto Rico)
 1-800-361-9309 (Canada)

Customer Service
 1-800-42-MAPEI (1-800-426-2734)

For the most current BEST-BACKED™ product data and warranty information, visit www.mapei.com.

Edition Date: January 12, 2011
 PR5533 UCPD_A11Evp © 2011 MAPEI Corporation.
 All Rights Reserved. Printed in the USA.