Ultracolor Plus FA

Rapid-Setting, “All-in-One” Grout

0474

DESCRIPTION

Ultracolor® Plus FA – with DropEffect™ technology and CO_2 emissions fully offset in the product's life cycle – is an ultra premium, fine-aggregate, fast-setting, polymer-modified, color-consistent, nonshrinking, efflorescence-free grout for joint widths from 1/16" to 3/4" (1.5 to 19 mm). DropEffect reduces surface absorption to help repel water, dirt and grime from penetrating grout joints. *Ultracolor Plus FA* is specially formulated with MAPEI’s High-Hydrated Cement Technology (HCT™) to eliminate common problems such as color consistency and efflorescence. Along with offering higher polymer content, HCT reduces absorption and increases stain resistance when compared with standard-performance cement grouts.

CO_2 FULLY OFFSET PRODUCTS

Ultracolor Plus FA is part of the “CO_2 Fully Offset in the Entire Life Cycle” line of products. CO_2 emissions measured throughout the life cycle of products from the Zero line in 2025, using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of third-party-certified carbon credits in support of forestry protection projects: A commitment to the planet, to people and to biodiversity. For more details on how emissions are calculated and on climate-mitigation projects that are financed through certified carbon credits, visit www.mapei.com/us/sustainable-products.

FEATURES AND BENEFITS

- Fine aggregate (FA) allows for narrow joint widths and improved cleanability.
- No efflorescence
- Easy to install and stain-resistant
- Sealer not typically required

INDUSTRY STANDARDS AND APPROVALS

- ISO 13007: Classification CG2WAF
- ANSI: Meets or exceeds A118.6 and A118.7 industry standards

WHERE TO USE

- Commercial and residential construction suitable for both interior and exterior installations
- For grouting dimensional stone, slate, granite, stone agglomerates and most types of ceramic, ceramic mosaic, quarry, brick paver, porcelain, glass and clay tiles
- When installing in submerged jobsites (swimming pools, spas, water features and fountains), allow 72 hours of curing.
- For use where grout will be exposed to foot traffic within 3 to 4 hours
- For joint widths from 1/16" to 3/4" (1.5 to 19 mm) for porcelain tile

LIMITATIONS

- Sealing is not typically required. A high-performance grout sealer may still be applied from MAPEI's *UltraCare*® family of sealers. Contact MAPEI Technical Services for more information regarding grout sealers.
- 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 Technical Data Sheet [TDS] for details).
- When grouting in temperatures above 80°F (26°C), see the section below titled "Grouting in Hot Weather or with High-Absorption Tiles."

Consult MAPEI's Technical Services Department for installation recommendations regarding 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 or prevent soft and powdery joints.
- 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 particles or color pigments. Seek the advice of the tile or stone manufacturer and site-test (mock up) on separate samples before grouting.
- Caution: Some types of glass, 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, lighter-shade 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. A test sample can also confirm the desired color and texture of *Ultracolor Plus FA*.

- 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.
- Remove all spacers, pegs, ropes and strings.
- Before grouting, make sure that the tiles or stones are firmly set and that the adhesive or mortar is completely dry.
- Clean the tile or stone surface thoroughly to remove dust, dirt and other contaminants that may cause grout discoloration.

See the "Surface preparation requirements" reference guide in the Tile & Stone Installation Systems section of MAPEI's Website.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

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, all of the contents should be dry-blended together.
3. Mix *Ultracolor Plus FA* with cool, clean water only. If using MAPEI'S optional pot-life extender additive *Ultracolor Plus Extend*, and if a firm mix is preferred, withhold an amount of water from the mix ratio that is comparable to the amount of additive that was included. Mix by using the following water-to-grout proportions:

Ultracolor Plus FA powder	Water
10 lbs. (4.54 kg)	1 to 1.1 U.S. qts. (0.95 to 1.04 L)
25 lbs. (11.3 kg))	2.6 to 2.8 U.S. qts. (2.46 to 2.65 L)

4. Pour the required measured amount of water into a clean mixing container. Gradually add the proportionate amount of *Ultracolor Plus FA* 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.

   Note: When mixing 25-lb. (11.3-kg) bags, it might be necessary to mix partial bags. In this situation, a 3-to-1 ratio of powder to water can be mixed by volume. When using this ratio, keep in mind that it is a starting point: You might need to use slightly more or less powder or water in order to fine-tune the consistency of the mixture.

5. Mix thoroughly with a low-speed mixer (at about 350 rpm) for about 4 to 5 minutes, or until obtaining a smooth, creamy, homogenous paste consistency and a uniform shading of the colored grout.
6. Avoid prolonged mixing, which will trap air and shorten the pot life.
7. Wash tools immediately with fresh water.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Use only at temperatures between 50°F and 95°F (10°C and 35°C). For temperatures above 80°F (26°C), see the section below titled “Grouting in Hot Weather or with High-Absorption Tiles.”
2. Using consistent application and cleaning procedures will produce consistent results.
3. 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.
4. Spread *Ultracolor Plus FA* immediately into the joints with a rubber grout float. Make sure that all joints are well-compacted and free of voids and gaps.
5. Remove excess grout from the tile surface, moving the grout float diagonally to the joints while *Ultracolor Plus FA* is still fresh.
6. The grout surface should be flush with the tile edge.
7. 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.
8. Provide for expansion and control joints as specified per TCNA handbook method EJ171 or TTMAC Specification Guide 09300, Detail 301EJ.
9. For full and color-consistent grout joints, allow the grout to set for typically 15 to 30 minutes at 73°F (23°C) before cleaning. Time before cleaning depends on the temperature, humidity and absorption of the tile/stone. When highly absorptive tile such as nonvitreous wall tile is grouted, the grout requires less setting time (about 5 to 10 minutes) before initial cleaning.
10. 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.
11. 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.
12. Change the water in the buckets frequently to help limit the amount of haze that forms on the tile or stone surface.
13. To prevent discoloration and soft/powdery joints, avoid cleaning with excessive water.
14. 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.
15. Wash tools immediately with fresh water.
16. Never use acid for cleaning marble, glazed tile or pigmented grout surfaces. If a persistent haze remains after normal cleaning, see the technical bulletin “Removing grout haze” on MAPEI's Website or consult MAPEI’s Technical Services Department.

PROTECTION

Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.

- For at least 3 days after completion, protect from rain and freezing, and do not immerse the installation in water.
- Floors: Keep the installation free from foot traffic for at least 3 hours after grouting.
- Walls: Protect the installation 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).
- 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 curing and protection when temperatures drop below 60°F (16°C) and/or when the relative humidity is higher than 70%.

MAINTENANCE

- Grout must be cured for at least 24 hours 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 chemical cleaners 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.
- A high-performance grout sealer may be applied from MAPEI's *UltraCare* family of sealers. Contact MAPEI's Technical Services Department for more information regarding grout sealers.

GROUTING IN HOT WEATHER OR WITH HIGH-ABSORPTION TILES

If the installation will take place in hot temperatures, the open time can be extended with the use of *Ultracolor Plus Extend* additive. Follow directions of the Technical Data Sheet for *Ultracolor Plus Extend*.

- Store grout bag(s) at room temperature for at least 24 hours before use.
- Use cold water for mixing.
- Set a mixing bucket inside a cold-water bath.
- Pre-wet tiles with cold water to lower the tile temperature and provide more working time (which is crucial for exterior and/or dark tile designs).
- Grout in the morning or evening hours to avoid the hottest part of the day.
- For high-absorption tiles, consider soaking the tiles in cool, clean water before installation. Hot, dry conditions combined with high-absorption tiles can prevent proper hydration of *Ultracolor Plus FA*.
- Remove as much of the excess from the tile surface as possible for easier cleanup.
- Start the initial wash in 15 minutes or less.
- Use tenting when grouting exterior to minimize sun exposure.
- Do not retemper the grout by adding additional water.
- The grout can be remixed if it begins to stiffen up in the bucket. No additional water should be added.

ISO 13007 Classification

Classification Code	Test Characteristics	Classification Requirement
CG2 (cementitious grout, improved)	Shrinkage	≤ 0.30% shrinkage in 28 days
W (reduced water absorption)	Water absorption	≤ 5 g after 4 hours
A (high abrasion resistance)	Abrasion resistance	≤ 1 000 mm^3
F (rapid-setting)	Compressive strength	≥ 2,175 psi (15 MPa) after 24 hours

ANSI Specifications

Test Method	Specification Standard	Test Results
ANSI A118.7 – compression	3,000 psi (20.7 MPa) at 28 days	3,000 to 5,500 psi (20.7 to 37.9 MPa) at 28 days
ANSI A118.7 – shrinkage	< 0.20% at 27 days	< 0.20% at 27 days
ANSI A118.7 – tensile strength	500 psi (3.45 MPa) at 28 days	500 to 600 psi (3.45 to 4.14 MPa) at 28 days
ANSI A118.7 – water absorption	< 5% (50% relative humidity to immersion)	< 5% (50% relative humidity to immersion)
ANSI A118.7 – flexural strength	1,000 psi (6.90 MPa) at 28 days	1,000 to 1,400 psi (6.90 to 9.66 MPa) at 28 days

Shelf Life and Product Characteristics
before mixing

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) in a dry area
Physical state	Powder

Application Properties

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

Mixing ratio	Per 10 lbs. (4.54 kg) of grout powder: 1 to 1.1 U.S. qts. (0.95 to 1.04 L) of water Per 25 lbs. (11.3 kg) of grout powder: 2.6 to 2.8 U.S. qts. (2.46 to 2.65 L) of water
VOCs (Rule #1168 of California's SCAQMD)	0 g per L
Pot life*	30 minutes to 1 hour
Application temperature range	50°F and 95°F (10°C and 35°C)
Curing time*	3 days

** Pot life and curing time vary based on jobsite conditions, including cold temperatures or high humidity.*

Packaging

Size
Bag: 10 lbs. (4.54 kg)
Bag: 25 lbs. (11.3 kg)

Approximate Coverage**

in sq. ft. (m^2) per 10 lbs. (4.54 kg)

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)	3/4" (19 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	39 (3.62)	20 (1.86)	13 (1.21)	10 (0.93)	7 (0.65)	5 (0.46)	4 (0.37)	4 (0.37)
2" x 2" x 1/4" (50 x 50 x 6 mm)	78 (7.25)	39 (3.62)	26 (2.42)	20 (1.86)	13 (1.21)	10 (0.93)	8 (0.74)	7 (0.65)
3" x 3" x 1/4" (75 x 75 x 6 mm)	117 (10.9)	59 (5.48)	39 (3.62)	30 (2.79)	20 (1.86)	15 (1.39)	12 (1.11)	10 (0.93)
4" x 8" x 1/2" (100 x 200 x 12 mm)	104 (9.66)	52 (4.83)	35 (3.25)	26 (2.42)	18 (1.67)	13 (1.21)	11 (1.02)	9 (0.84)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	165 (15.3)	83 (7.71)	55 (5.11)	42 (3.90)	28 (2.60)	21 (1.95)	17 (1.58)	14 (1.30)
6" x 6" x 1/4" (150 x 150 x 6 mm)	233 (21.6)	117 (10.9)	78 (7.25)	59 (5.48)	39 (3.62)	30 (2.79)	24 (2.23)	20 (1.86)

6" x 6" x 1/2" (150 x 150 x 12 mm)	117 (10.9)	59 (5.48)	39 (3.62)	30 (2.79)	20 (1.86)	15 (1.39)	12 (1.11)	10 (0.93)
6" x 24" x 3/8" (150 x 610 x 10 mm)	249 (23.1)	125 (11.6)	83 (7.71)	63 (5.85)	42 (3.90)	32 (2.97)	25 (2.32)	21 (1.95)
8" x 8" x 3/8" (200 x 200 x 10 mm)	207 (19.2)	104 (9.66)	69 (6.41)	52 (4.83)	35 (3.25)	26 (2.42)	21 (1.95)	18 (1.67)
12" x 12" x 3/8" (300 x 300 x 10 mm)	311 (28.9)	156 (14.5)	104 (9.66)	78 (7.25)	52 (4.83)	39 (3.62)	32 (2.97)	26 (2.42)
12" x 24" x 3/8" (300 x 600 x 10 mm)	414 (38.5)	207 (19.2)	138 (12.8)	104 (9.66)	69 (6.41)	52 (4.83)	42 (3.90)	35 (3.25)
13" x 13" x 3/8" (330 x 330 x 10 mm)	337 (31.3)	169 (15.7)	113 (10.5)	85 (7.90)	57 (5.30)	43 (3.99)	34 (3.16)	29 (2.69)
18" x 18" x 3/8" (457 x 457 x 10 mm)	466 (43.3)	233 (21.6)	156 (14.5)	117 (10.9)	78 (7.25)	59 (5.48)	47 (4.37)	39 (3.62)
20" x 20" x 3/8" (508 x 508 x 10 mm)	518 (48.1)	259 (24.1)	173 (16.1)	130 (12.1)	87 (8.08)	65 (6.04)	52 (4.83)	44 (4.09)
24" x 24" x 3/8" (610 x 610 x 10 mm)	621 (57.7)	311 (28.9)	207 (19.2)	156 (14.5)	104 (9.66)	78 (7.25)	63 (5.85)	52 (4.83)
32" x 32" x 3/8" (812 x 812 x 10 mm)	828 (76.9)	414 (38.5)	276 (25.6)	207 (19.2)	138 (12.8)	104 (9.66)	83 (7.71)	69 (6.41)

Approximate Coverage**
in sq. ft. (m^2) per 25 lbs. (11.3 kg)

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)	3/4" (19 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	97 (9.01)	49 (4.55)	33 (3.07)	25 (2.32)	17 (1.58)	13 (1.21)	10 (0.93)	9 (0.84)
2" x 2" x 1/4" (50 x 50 x 6 mm)	194 (18.0)	97 (9.01)	65 (6.04)	49 (4.55)	33 (3.07)	25 (2.32)	20 (1.86)	17 (1.58)
3" x 3" x 1/4" (75 x 75 x 6 mm)	291 (27.0)	146 (13.6)	97 (9.01)	73 (6.78)	49 (4.55)	37 (3.44)	30 (2.79)	25 (2.32)
4" x 8" x 1/2" (100 x 200 x 12 mm)	259 (24.1)	130 (12.1)	87 (8.08)	65 (6.04)	44 (4.09)	33 (3.07)	26 (2.42)	22 (2.04)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	413 (38.4)	207 (19.2)	138 (12.8)	104 (9.66)	69 (6.41)	52 (4.83)	42 (3.90)	35 (3.25)
6" x 6" x 1/4" (150 x 150 x 6 mm)	582 (54.1)	291 (27.0)	194 (18.0)	146 (13.6)	97 (9.01)	73 (6.78)	59 (5.48)	49 (4.55)
6" x 6" x 1/2" (150 x 150 x 12 mm)	291 (27.0)	146 (13.6)	97 (9.01)	73 (6.78)	49 (4.55)	37 (3.44)	30 (2.79)	25 (2.32)

6" x 24" x 3/8" (150 x 610 x 10 mm)	621 (57.7)	311 (28.9)	207 (19.2)	156 (14.5)	104 (9.66)	78 (7.25)	63 (5.85)	52 (4.83)
8" x 8" x 3/8" (200 x 200 x 10 mm)	518 (48.1)	259 (24.1)	173 (16.1)	130 (12.1)	87 (8.08)	65 (6.04)	52 (4.83)	44 (4.09)
12" x 12" x 3/8" (300 x 300 x 10 mm)	776 (72.1)	388 (36.0)	259 (24.1)	194 (18.0)	130 (12.1)	97 (9.01)	78 (7.25)	65 (6.04)
12" x 24" x 3/8" (300 x 600 x 10 mm)	1,035 (96.2)	518 (48.1)	345 (32.1)	259 (24.1)	173 (16.1)	130 (12.1)	104 (9.66)	87 (8.08)
13" x 13" x 3/8" (330 x 330 x 10 mm)	841 (78.1)	421 (39.1)	281 (26.1)	211 (19.6)	141 (13.1)	106 (9.85)	85 (7.90)	71 (6.60)
18" x 18" x 3/8" (457 x 457 x 10 mm)	1,164 (108)	582 (54.1)	388 (36.0)	291 (27.0)	194 (18.0)	146 (13.6)	117 (10.9)	97 (9.01)
20" x 20" x 3/8" (508 x 508 x 10 mm)	1,294 (120)	647 (60.1)	432 (40.1)	324 (30.1)	216 (20.1)	162 (15.1)	130 (12.1)	108 (10.0)
24" x 24" x 3/8" (610 x 610 x 10 mm)	1,552 (144)	776 (72.1)	518 (48.1)	388 (36.0)	259 (24.1)	194 (18.0)	156 (14.5)	130 (12.1)
32" x 32" x 3/8" (812 x 812 x 10 mm)	2,069 (192)	1,035 (96.2)	690 (64.1)	518 (48.1)	345 (32.1)	259 (24.1)	207 (19.2)	173 (16.1)

*** 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 to determine the amount of product needed for project criteria not shown.*

RELATED DOCUMENTS

- Technical bulletin: "Removing grout haze"***
- Technical bulletin: "Installing tile in hot weather"***
- Reference guide: "Tiling and grouting instructions"***
- Brochure: "Grout troubleshooting guide"***

*** At www.mapei.com*

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (SDS) for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

CONTACT INFORMATION

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MAPEI®

Ultracolor® Plus FA

CO2 FULLY OFFSET IN THE ENTIRE LIFE CYCLE ZERO

Premium
Supérieur
Superior

Rapid-Setting, “All-in-One” Grout

- ✔ Fine aggregate (FA) allows for narrow joint widths and improved cleanability
- ✔ Rapid-setting: 3 hours until foot traffic
- ✔ No efflorescence
- ✔ Easy to install and stain-resistant
- ✔ Sealer not typically required

Coulis tout-en-un à prise rapide

- ✔ L’agrégat fin (FA) permet des joints de largeur étroite et une nettoyabilité améliorée
- ✔ À prise rapide, permettant la circulation piétonnière après 3 heures
- ✔ Sans efflorescence
- ✔ Facile à appliquer et résistant aux taches
- ✔ Un scellant n’est généralement pas requis

Lechada de fraguado rápido, “todo en uno”

- ✔ El agregado fino (FA) es apto para juntas estrechas y una mayor facilidad de limpieza
- ✔ De fraguado rápido: 3 horas antes de tráfico peatonal
- ✔ Sin eflorescencias
- ✔ Fácil de instalar y resistente a manchas
- ✔ Generalmente no se requiere sellador

Actual product color and texture are unique to jobsite conditions and installation techniques. Test the product in a small area to confirm desired results before installation begins.

La couleur et la texture réelles du produit sont particulières aux conditions sur le chantier et aux techniques d'installation. Effectuer un essai du produit sur une zone-échantillon afin de s'assurer d'obtenir les résultats désirés avant de procéder à l'installation.

El color y la textura finales son específicos a las conditiones de la obra y a las técnicas de aplicación. Pruebe el producto en una pequeña área para confirmar los resultados deseados antes de comenzar la aplicación.

When using partial units or more than one unit of grout for your project, dry-blend all units before use.

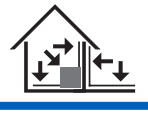
Lorsque des unités partielles ou plus d'une unité sont utilisées pour un projet, mélanger à sec toutes les unités avant l'utilisation.

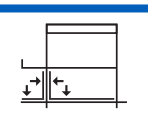
Cuando su proyecto requiere unidades parciales o mas de una unida de lechada, mezcle en seco todas las unidades antes de usar.

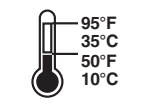
Rapid-curing to facilitate foot traffic 3 hours after installation

Durcissement rapide, permettant la circulation des piétons dans les 3 heures suivant l'installation

Curado rápido para facilitar el tránsito peatonal 3 horas después de la instalación







Make sure tiles are firmly set, all surface contaminants are removed and surface is clean. Always test this grout on a separate sample when using sensitive tile surfaces like marble, limestone and glass.

S'assurer que les carreaux sont posés fermement, que le support est propre et que toute la saleté est enlevée de sa surface. Toujours tester ce coulis sur un échantillon distinct lors de l'emploi de surfaces de carreaux sensibles comme le marbre, la pierre calcaire et le verre.

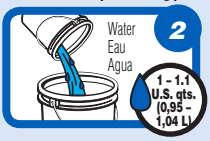
Asegurarse de que las losetas estén instaladas firmemente, de que se hayan quitado todos los contaminantes de la superficie y de que la superficie esté limpia. Pruebe siempre esta lechada en una muestra separada cuando utilice superficies de loseta sensibles como mármol, piedra caliza y vidrio.

For grouting in hot weather, or when using high-absorption tiles, see instructions on the Technical Data Sheet.

Pour le jointoiement de carreaux très absorbants ou par temps chaud, consulter les instructions contenues dans la fiche technique.

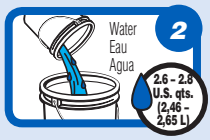
Para aplicación de lechada en clima caliente, o cuando se usan losetas de alta absorción, vea las instrucciones en la Ficha técnica.

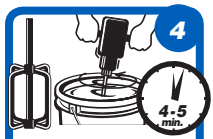
10 lbs. (4,54 kg)



OR / OU / O

25 lbs. (11,3 kg)





Low speed: 350 RPMs

Basse vitesse : 350 tr/min

Baja velocidad: 350 rpm

Spread immediately.

Étendre immédiatement.

Aplíquelo de inmediato.

Allow the grout to firm up in the joints sufficiently (usually 15 to 30 minutes at 73°F [23°C]) before beginning to wash. Note: Grout is fast-setting, which can reduce working time especially in hot-weather conditions. See Technical Bulletin "Installing tile in hot weather" at www.mapei.com.

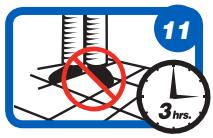
Laisser le coulis durcir suffisamment (généralement 15 à 30 minutes à 23 °C [73 °F]) avant de procéder au nettoyage. Remarque : Il s'agit d'un coulis à prise rapide, ce qui peut réduire le temps d'emploi, en particulier par temps chaud. Consulter le bulletin technique « Installation de carreaux par temps chaud » au www.mapei.com.

Deje que la lechada se endurezca en las juntas lo suficiente (generalmente entre 15 a 30 minutos a 23°C [73°F]) antes de comenzar a lavar. Nota: La lechada es de fraguado rápido, lo cual puede reducir el tiempo de trabajo en especial en condiciones de clima caliente. Lea el Boletín técnico "Instalación de losetas en clima caliente" en ww.mapei.com.

Buff to remove any film/haze.

Enlever toute pellicule résiduelle.

Brille para eliminar cualquier película/nubosidad.



10 lbs. (4,54 kg)

COVERAGE IN SQ. FT. (M²) / COUVERTURE EN PI² (M²) / COBERTURA EN PIES² (M²)
per/par/por 10 lbs. (4,54 kg)

Tile Size / Format des carreaux / Tamaño de la loseta	Grout Joint Width / Largeur des joints / Ancho de la junta de lechada							
	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)	3/4" (19 mm)
2" x 2" x 1/4" (50 x 50 x 6 mm)	78 (7,25)	39 (3,62)	26 (2,42)	20 (1,86)	13 (1,21)	10 (0,93)	8 (0,74)	7 (0,65)
6" x 24" x 3/8" (150 x 610 x 10 mm)	249 (23,1)	125 (11,6)	83 (7,71)	63 (5,85)	42 (3,90)	32 (2,97)	25 (2,32)	21 (1,95)
12" x 12" x 3/8" (300 x 300 x 10 mm)	311 (28,9)	156 (14,5)	104 (9,66)	78 (7,25)	52 (4,83)	39 (3,62)	32 (2,97)	26 (2,42)
12" x 24" x 3/8" (300 x 600 x 10 mm)	414 (38,5)	207 (19,2)	138 (12,8)	104 (9,66)	69 (6,41)	52 (4,83)	42 (3,90)	35 (3,25)
24" x 24" x 3/8" (610 x 610 x 10 mm)	621 (57,7)	311 (28,9)	207 (19,2)	156 (14,5)	104 (9,66)	78 (7,25)	63 (5,85)	52 (4,83)

25 lbs. (11,3 kg)

COVERAGE IN SQ. FT. (M²) / COUVERTURE EN PI² (M²) / COBERTURAS EN PIES² (M²) per/par/por 25 lbs. (11,3 kg)

Tile Size / Format des carreaux / Tamaño de la loseta	Grout Joint Width / Largeur des joints / Ancho de la junta de lechada							
	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)	3/4" (19 mm)
2" x 2" x 1/4" (50 x 50 x 6 mm)	194 (18,0)	97 (9,01)	65 (6,04)	49 (4,55)	33 (3,07)	25 (2,32)	20 (1,86)	17 (1,58)
6" x 24" x 3/8" (150 x 610 x 10 mm)	621 (57,7)	311 (28,9)	207 (19,2)	156 (14,5)	104 (9,66)	78 (7,25)	63 (5,85)	52 (4,83)
12" x 12" x 3/8" (300 x 300 x 10 mm)	776 (72,1)	388 (36,0)	259 (24,1)	194 (18,0)	130 (12,1)	97 (9,01)	78 (7,25)	65 (6,04)
12" x 24" x 3/8" (300 x 610 x 10 mm)	1,035 (96,2)	518 (48,1)	345 (32,1)	259 (24,1)	173 (16,1)	130 (12,1)	104 (9,66)	87 (8,08)

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

DESCRIPTION

Ultracolor Plus FA – with DropEffect™ technology and CO_2 emissions fully offset in the product's life cycle – is an ultra premium, fine-aggregate, fast-setting, polymer-modified, color-consistent, nonshrinking, efflorescence-free grout for joint widths from 1/16" to 3/4" (1.5 to 19 mm). DropEffect reduces surface absorption to help repel water, dirt and grime from penetrating grout joints. *Ultracolor Plus FA* is specially formulated with MAPEI's High-Hydrated Cement Technology (HCT™) to eliminate common problems such as color consistency and efflorescence. Along with offering higher polymer content, HCT reduces absorption and increases stain resistance when compared with standard-performance cement grouts.

LIMITATIONS

- Sealing is not typically required. However, a high-performance grout sealer may still be applied from MAPEI's *UltraCare*® family of sealers. Contact MAPEI Technical Services for more information regarding grout sealers.
- Do not use harsh chemical cleaners to clean *Ultracolor Plus FA*.

PROTECTION

- For at least 3 days after completion, protect from rain and freezing, and do not immerse the installation in water.

F **Pour les renseignements les plus récents sur les données du produit et la garantie BEST-BACKED℠, consulter le www.mapei.com.**

DESCRIPTION

Ultracolor Plus FA – avec technologie DropEffect℠ et compensation entière des émissions de CO_2 au cours du cycle de vie du produit – est un coulis sans efflorescence, sans retrait, de couleur uniforme, modifié aux polymères, à prise rapide, avec agrégat fin et de qualité ultra supérieure, pour les joints d'une largeur de 1,5 mm à 19 mm (1/16" à 3/4"). La technologie DropEffect réduit l'absorption en surface afin d'aider à repousser l'eau et les saletés pour les empêcher de pénétrer dans les joints de coulis. *Ultracolor Plus FA* est spécialement formulé avec la technologie d'hyperhydratation cimentaire (HCT℠) de MAPEI afin d'éliminer les problèmes courants tels que l'inégalité de la couleur et l'efflorescence. En plus d'offrir une teneur plus élevée en polymères, la technologie d'hyperhydratation cimentaire se traduit par une absorptivité réduite et une meilleure résistance aux taches par rapport aux coulis cimentaires de qualité standard.

RESTRICTIONS

- Le scellement n'est généralement pas requis. Cependant, il est toujours possible d'appliquer un scellant de haute performance pour coulis de la famille des scellants *UltraCare*® de MAPEI. Consulter les Services techniques de MAPEI afin d'obtenir plus d'informations concernant les scellants pour coulis.
- Ne pas employer des nettoyants chimiques forts pour nettoyer *Ultracolor Plus FA*.

PROTECTION

- Pendant au moins les 3 jours suivant la fin des travaux, protéger de la pluie et du gel, et ne pas immerger l'installation dans l'eau.

S **Para los datos del producto más actuales y la información de la garantía BEST-BACKED℠, visite www.mapei.com.**

DESCRIPCION

Ultracolor Plus FA, con tecnología DropEffect™ y emisiones de CO_2 completamente compensadas en el ciclo de vida del producto, es una lechada de muy alta calidad, de agregado fino, fraguado rápido, modificada con polímeros, consistente en la coloración, que no se contrae y libre de eflorescencias, para juntas de 1,5 a 19 mm (1/16 a 3/4 de pulgada) de ancho. DropEffect reduce la absorción de la superficie para ayudar a repeler agua y evitar que la suciedad y los residuos penetren en las juntas de lechada. *Ultracolor Plus FA* está especialmente formulada con la Tecnología de cemento altamente hidratado (HCT™) de MAPEI para eliminar los problemas comunes tales como consistencia en el color y eflorescencias. Además de ofrecer un mayor contenido de polímero, el HCT reduce la absorción y aumenta la resistencia a manchas cuando se compara con lechadas de cemento de desempeño estándar.

LIMITACIONES

- Generalmente no requiere sellado. Sin embargo, puede aplicar un sellador de lechada de alto rendimiento de la familia de selladores *UltraCare*®, de MAPEI. Contacte los Servicios técnicos de MAPEI para conocer más información sobre selladores de lechada.
- No utilice limpiadores químicos fuertes para limpiar *Ultracolor Plus FA*.

PROTECCION

- Proteja la instalación contra lluvia y congelamiento durante al menos 3 días después de terminado, y no sumerja en agua la instalación.

Safety Data Sheet
ULTRACOLOR PLUS FA
Safety Data Sheet dated: 09/24/2025 - version 14
Date of first edition: 02/09/2016

1. IDENTIFICATION

Product identifier used on the label

Mixture identification:

Trade name: ULTRACOLOR PLUS FA

Trade code: 906BU9990

Recommended use of the chemical and restrictions on use

Recommended use: Cementitious grout

Restrictions on use: Not available

Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsible: RDProductSafety@mapei.com

Emergency 24 hour numbers:

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Carcinogenicity, Category 1A	May cause cancer if inhaled.
Specific target organ toxicity following repeated exposure, Category 1	Causes damage to organs through prolonged or repeated exposure if inhaled.

Label elements

Hazard pictograms and Signal Word

Danger

Hazard statements

H350	May cause cancer if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/clothing and eye/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P501	Dispose of contents/container in accordance with applicable regulations.

Hazards associated with foreseeable chemical reactions

None

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

Prolonged exposition and/or intensive inhalation of respirable free crystalline silica (average diameter less than 10 micron in accordance with ACGIH) can cause pulmonary fibrosis commonly referred to as silicosis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification
≥36 - <40 %	silica sand; quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372; Carc. 1A, H350
≥3 - <5 %	titanium dioxide; Dioxotitanium	CAS:13463-67-7 EC:236-675-5 EU CLP Index:022-006-00-2	Carc. 2, H351
≥0.1 - <0.2 %	lithium carbonate; Dilithium carbonate	CAS:554-13-2 EC:209-062-5	Acute Tox. 4, H302; Aquatic Acute 3, H402; Eye Irrit. 2A, H319

The actual concentration of the components listed above is withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

Not available

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO_2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations

Scoop into containers and seal for disposal.

Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Handle in a well ventilated place.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
silica sand; quartz CAS: 14808-60-7	ACGIH		Long Term: 0,025 mg/m3 A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	MAK	AUSTRIA	Long Term: 0,15 mg/m3
	ACGIH		Long Term: 0,025 mg/m3 (R), A2 - Pulm fibrosis, lung cancer
	MAK	SWITZERLAND	Long Term: 0,15 mg/m3
	EU		Long Term: 0,1 mg/m3 Behaviour Binding
titanium dioxide; Dioxotitanium CAS: 13463-67-7	MAK	GERMANY	Long Term: 0,3 mg/m3
	OSHA	AUSTRALIA	Short Term: Ceiling - 10 mg/m3
	ACGIH		Long Term: 10 mg/m3
	MAK	AUSTRIA	Long Term: 5 mg/m3
	MAK	SWITZERLAND	Long Term: 3 mg/m3; Short Term: 16 mg/m3

Predicted No Effect Concentration (PNEC) values

titanium dioxide; Dioxotitanium CAS: 13463-67-7	Exposure Route: Fresh Water; PNEC Limit: 0,184 mg/l
	Exposure Route: Soil; PNEC Limit: 100 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l
	Exposure Route: Marine water; PNEC Limit: 0,0184 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 100 mg/kg
	Exposure Route: Freshwater sediments; PNEC Limit: 1000 mg/kg
	Exposure Route: Intermittent release; PNEC Limit: 0,193 mg/l
lithium carbonate; Dilithium carbonate CAS: 554-13-2	Exposure Route: Fresh Water; PNEC Limit: 9 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 35,2 mg/l
	Exposure Route: Marine water; PNEC Limit: 0,9 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 3,52 mg/kg
	Exposure Route: Soil; PNEC Limit: 1,76 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 122,2 mg/l
	Exposure Route: Intermittent release; PNEC Limit: 0,3 mg/l

Derived No Effect Level (DNEL) values

titanium dioxide; Dioxotitanium CAS: 13463-67-7	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 0,17 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 0,028 mg/m3
lithium carbonate; Dilithium carbonate CAS: 554-13-2	Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Industry: 100 mg/kg; Consumer: 19,23 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 30 mg/m3; Consumer: 28,92 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 64,3 mg/kg; Consumer: 64,3 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 10 mg/m3; Consumer: 9,64 mg/m3
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 6,43 mg/kg
	Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 19,23 mg/m3

Appropriate engineering controls: Not available

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Solid
Appearance and colour:	powder various
Odour:	characteristic
Odour threshold:	Not Relevant
Melting point / freezing point:	Not Relevant
Initial boiling point and boiling range:	Not Relevant
Flammability:	Not Relevant
Upper/lower flammability or explosive limits:	Not Relevant
Flash point:	Not Relevant
Auto-ignition temperature:	Not Relevant
Decomposition temperature:	Not Relevant
pH:	Not Relevant
pH (water dispersion, 10%):	9.00
Viscosity:	Not Relevant
Kinematic viscosity:	No data available
Solubility in water:	dispersible
Solubility in oil:	Not Relevant
Partition coefficient (n-octanol/water):	Not Relevant
Vapour pressure:	Not Relevant
Evaporation rate:	Not Relevant
Relative density:	No data available
Vapour density:	Not Relevant

Particle characteristics:

Particle size:	No data available

Other information

Explosive properties:	Not Relevant
Oxidizing properties:	Not Relevant
Solid/gas flammability:	Not Relevant
Substance Groups relevant properties:	Not Relevant
Miscibility:	Not Relevant
Fat Solubility:	Not Relevant
Conductivity:	Not Relevant

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	The product is classified: Carcinogenicity, Category 1A(H350)
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	The product is classified: Specific target organ toxicity following repeated exposure, Category 1(H372)
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

silica sand; quartz	a) acute toxicity	LD50 Oral > 2000 mg/kg	
		LD50 Skin > 2000 mg/kg	
titanium dioxide; Dioxotitanium	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg	
		LD50 Skin Rat > 2000 mg/m3	
		LC50 Inhalation Dust Rat > 6,82 mg/l 4h	
		LD50 Skin Rabbit > 10000 mg/kg	
lithium carbonate; Dilithium carbonate	a) acute toxicity	LD50 Oral Rat 525 mg/kg bw	
		LC50 Inhalation Rat > 2, mg/l 4h	
		LD50 Skin Rat > 3000, mg/kg bw	
	c) serious eye damage/irritation	Eye Irritant Rat Positive	OECD TG 405
	e) germ cell mutagenicity	NOAEL Oral Rat > 90, mg/kg	
	g) reproductive toxicity	NOAEL Oral Rat = 15, mg/kg	
	i) STOT-repeated exposure	NOAEL Oral = 6,43 mg/kg	
		NOAEL Skin = 64,3 mg/kg	
		NOAEL Inhalation = 0,01 mg/l	

Substance(s) listed on the IARC Monographs:

silica sand; quartz	Group 1
titanium dioxide; Dioxotitanium	Group 2B

Substance(s) listed as OSHA Carcinogen(s):

silica sand; quartz

titanium dioxide; Dioxotitanium

Substance(s) listed as NIOSH Carcinogen(s):

silica sand; quartz

titanium dioxide; Dioxotitanium

Substance(s) listed on the NTP report on Carcinogens:

silica sand; quartz

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
titanium dioxide; Dioxotitanium	CAS: 13463-67-7 - EINECS: 236-675-5 - INDEX: 022-006-00-2	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae = 16 mg/L 72
		a) Aquatic acute toxicity : NOEC Algae = 5600 mg/L 72
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48
lithium carbonate; Dilithium carbonate	CAS: 554-13-2 - EINECS: 209-062-5	a) Aquatic acute toxicity : LC50 Fish = 30,3 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 33,2 mg/L 48
		a) Aquatic acute toxicity : EC50 Algae > 400 mg/L 72
		b) Aquatic chronic toxicity : NOEC Fish = 19,1 mg/L 96
		b) Aquatic chronic toxicity : NOEC Fish = 15,25 mg/L - 21 d
		b) Aquatic chronic toxicity : NOEC Daphnia = 20 mg/L 48
		b) Aquatic chronic toxicity : NOEC Daphnia = 9 mg/L - 21 d
		b) Aquatic chronic toxicity : NOEC Algae = 50 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 30,3 mg/L 96h ECHA

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

DOT-UN Number: Not Applicable

ADR-UN number: Not Applicable

IATA-Un number: Not Applicable

IMDG-Un number: Not Applicable

UN proper shipping name

DOT-Proper Shipping Name: Not Applicable

ADR-Shipping Name: Not Applicable

IATA-Technical name: Not Applicable

IMDG-Technical name: Not Applicable

Transport hazard class(es)

DOT-Hazard Class: Not Applicable

ADR-Class: Not Applicable

IATA-Class: Not Applicable

IMDG-Class: Not Applicable

Packing group

DOT Packing Group: Not Applicable

ADR-Packing Group: Not Applicable

IATA-Packing group: Not Applicable

IMDG-Packing group: Not Applicable

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: No

Transport in bulk according to IMO instruments

N.A.

Not Applicable

Special precautions

Department of Transportation (DOT):

Not Applicable

Road and Rail (ADR-RID) :

Not Applicable

Air (IATA) :

Not Applicable

Sea (IMDG) :

Not Applicable

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared according to the Hazard Communication Standard 2024 (HCS 2024)

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

silica sand; quartz	is listed in TSCA	Section 8b
titanium dioxide; Dioxotitanium	is listed in TSCA	Section 8b
lithium carbonate; Dilithium carbonate	is listed in TSCA	Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

lithium carbonate; Dilithium carbonate

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

No substances listed

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

silica sand; quartz	Listed as carcinogen
titanium dioxide; Dioxotitanium	Listed as carcinogen
lithium carbonate; Dilithium carbonate	Listed as reproductive toxicant

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

silica sand; quartz

titanium dioxide; Dioxotitanium

lithium carbonate; Dilithium carbonate

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

silica sand; quartz

titanium dioxide; Dioxotitanium

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

silica sand; quartz

titanium dioxide; Dioxotitanium

lithium carbonate; Dilithium carbonate

Canada - Federal regulations

DSL - Domestic Substances List

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

This product complies with NDSL inventory

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

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16. OTHER INFORMATION

Safety Data Sheet dated: 9/24/2025 - version 14

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H350	May cause cancer.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life

Code	Hazard class and hazard category	Description
A.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.6/1A	Carc. 1A	Carcinogenicity, Category 1A
A.6/2	Carc. 2	Carcinogenicity, Category 2
A.9/1	STOT RE 1	Specific target organ toxicity following repeated exposure, Category 1
US-HAE/A3	Aquatic Acute 3	Acute aquatic hazard, category 3

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
CLP: Classification, Labeling, Packaging.
EU CLP Index: Index number as reported in Annex VI to EU Reg. 1272/2008
EINECS: European Inventory of Existing Commercial Chemical Substances.
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
GefStoffVO: Ordinance on Hazardous Substances, Germany.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
WGK: German Water Hazard Class.
KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION

ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

ULTACOLOR PLUS FA

EPD®
THE INTERNATIONAL EPD® SYSTEM

ECO PLATFORM EPD VERIFIED

"An EPD should provide current information and may be updated if conditions change. The stated validity is, therefore, subject to the continued registration and publication at www.environdec.com.

Programme:	Programme operator:	EPD registration number:	Publication date:	Valid until:	Revision date:	Geographical scope:
The International EPD® System; www.environdec.com	**EPD International AB**	**S-P-01107**	**2018-03-22**	**2028-12-21**	**2024-01-11**	**Global**

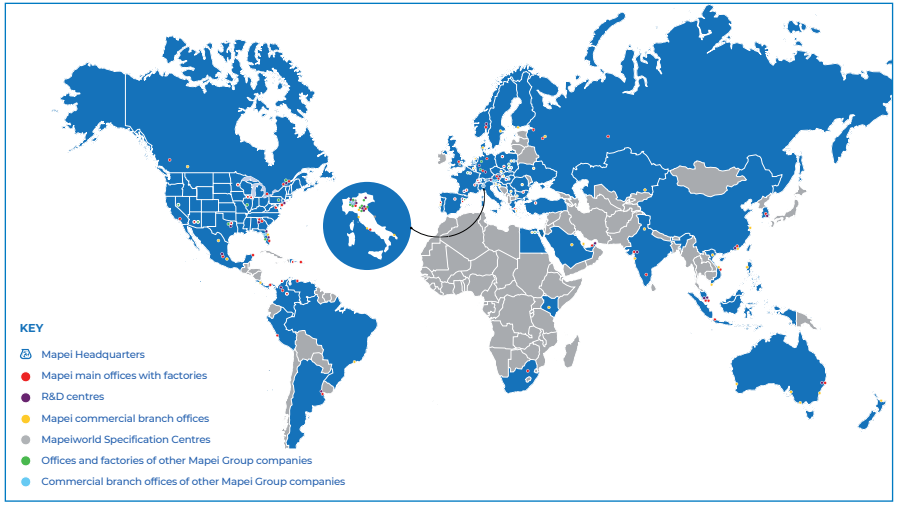
MAPEI®

1. COMPANY DESCRIPTION / GOAL & SCOPE

Founded in 1937 in Milan, Italy, Mapei produces adhesives and complementary products for laying all types of floor, wall and coating materials, and also specializes in other chemical products used in the building industry, such as waterproofing products, specialty mortars, admixtures for concrete, cement additives, products for underground constructions and for the restoration of concrete and historical buildings.

There are currently 102 subsidiaries in the Mapei Group, with a total of 90 production facilities located around the world in 35 different countries and in 5 different continents. Mapei also has 32 central laboratories. Most locations are ISO 9001 and ISO 14001 or EMAS-certified.

Mapei invests 12% in its company's total work-force and 5% of its turnover in Research & Development; in particular, 70% of its R&D efforts are directed to develop eco-sustainable and environmentally friendly products, which give important contribution to all major green rating systems for eco-sustainable buildings such as LEED and BREEAM.



LEED V4.1 is the latest version of Leadership in Environmental and Energy Design, an American protocol that enables buildings to be certified as eco-sustainable according to parameters and credits described in the most widely adopted green building criteria in the world. Issued by the GBC US, it is mandatory for all LEED projects registered after October 2016.

Numerous changes have been made to the previous version: Mapei products play a part in obtaining important credits thanks to their EPD's (type III environmental declarations) and their products with very low emission of VOC.

Launched in the UK in 1990, **BREEAM** (BRE Environmental Assessment Method) is a protocol for sustainable building practices adopted mainly in the United Kingdom and in Scandinavian countries with the version **BREEAM NOR**.

By adopting this protocol, thanks to their EPD's and very low emission of VOC, Mapei products help towards obtaining relative credits.

Furthermore, Mapei has developed a sales and technical service network with offices all over the world and offers an efficient Technical Assistance Service that is valued by architects, engineers, contractors and owners.

The goal of the study is to provide necessary data and documentation to produce an EPD according to the requirements of PCR Environdec ((Version 1.3.1, 2023-07-08) under EN 15804:2012+A2:2019/AC:2021 and to have more comprehension about the environmental impacts related to **Ultracolor Plus FA** manufactured in Mapei Corp. located in Garland (TX), Brampton (Walker, CAN), West Chicago (IL), including packaging of the finished products.

Target audiences of the study are customers and other parties with an interest in the environmental impacts of **Ultracolor Plus FA**. This analysis shall not support comparative assertions intended to be disclosed to the public.

2. PRODUCT DESCRIPTION

Ultracolor Plus FA is an ultra-premium, fine-aggregate, fast-setting, polymer-modified, color-consistent, nonshrinking, efflorescence-free grout for joint widths from 1/16" to 3/4" (1.5 to 19 mm). DropEffect reduces surface absorption to help repel water, dirt and grime from penetrating grout joints. Ultracolor Plus FA is specially formulated with MAPEI's High-Hydrated Cement Technology (HCT) to eliminate common problems such as color consistency and efflorescence. Along with offering higher polymer content, HCT reduces absorption and increases stain resistance when compared with standard-performance cement grouts.

Ultracolor Plus FA is available in 25 lbs. (11.3 kg) and 10 lbs. (4.54 kg) bags.

For more information about the product see the TDS (Technical Data Sheet) on Mapei Corp website (www.mapei.com/us).

3. CONTENT DECLARATION

The main components and ancillary materials of the product included in this EPD are the following:

Table 1: Composition referred to 1 kg of finished product with packaging.

Materials	Percentage (%) by mass	Post-consumer recycled material weight-%	Biogenic Material, weight-% and kgC/kg
Inorganic binder	< 40%	0	0 resp. 0
Filler	< 5%	0	0 resp. 0
Organic binder	< 70%	0	0 resp. 0
Additives	< 10%	0	0 resp. 0
Packaging Materials	**Percentage (%) by mass**	**Weight-% (versus the product)**	**Weight biogenic carbon, kg C/kg**
Paper (bag)	< 1%	0	0,40
LDPE (wrap and bag)	< 5%	0	0
Wood (pallet)	< 2%	0	0,43

The product does not contain a concentration higher than 0,1% (by unit weight) of either carcinogenic substances or substances of very high concern (SVHC) on the REACH Candidate List published by the European Chemicals Agency.

4. DECLARED UNIT AND REFERENCE SERVICE LIFE

The declared unit is 1 kg of finished product with packaging.
Due to the selected system boundary, the reference service life of the product is not specified.

5. SYSTEM BOUNDARIES AND ADDITIONAL TECHNICAL INFORMATION

The approach is “cradle to gate” (A1–A3) with modules C1–C4 and module D and optional modules (A1–A3 + A4 – A5 + C + D):

- A1, A2, A3 (Product stage): extraction and processing of raw materials and packaging (A1), transportation up to the factory gate (A2), manufacturing of the finished product (A3).
- A4 – A5 (Construction process stage): transport of the finished product to final customers and installation into the building.
- C1, C2, C3, C4 (End of Life stage): With a collection rate of 100% as C&D waste, the transports are carried out by lorry over 100 km (C2). A recycling ratio (C3) of 31% the remaining 69% is landfilled (C4).
- D (Resource recovery stage): contains credits from the recycling of the product in module C3 and the credit from the incineration of a fraction of packaging waste. The product can be collected and recycled for use in substitution of virgin raw aggregates.

Table 2: System boundaries

	Product stage			**Construction process stage**		**Use stage**							**End of life stage**				**Resource recovery stage**
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	X	X	X	X	X	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X
Geography	US, CAN	US, CAN	US, CAN	US, CAN	US, CAN	-	-	-	-	-	-	-	US, CAN	US, CAN	US, CAN	US, CAN	US, CAN
Specific data	> 90%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	<10%					-	-	-	-	-	-	-	-	-	-	-	-

MND: Module Not Declare

A brief description of production process is the following:
The production process starts from raw materials, that are purchased from external and intercompany suppliers and stored in the plant. Bulk raw materials are stored in specific silos and added automatically in the production mixer, according to the formula of the product. Other raw materials, supplied in bags, big bags or tanks, are stored in the warehouse and added automatically or manually in the mixer. The production is a discontinuous process, in which all the components are mechanically mixed in batches. The semi-finished product is then packaged, put on wooden pallets and stored in the finished products warehouse. The quality of final products is controlled before the sale.

Figure 1: Production process detail - © Photo Halvor Gudim

Table 3: Transport to the building site (A4)

Scenario information	Value	Unit
Means of transport: truck-trailer euro 6, gross weight 34-40 t, payload capacity 27 t		
Diesel consumption	0.002	l/100km
Transport distance	1000	km
Capacity utilisation (including empty runs)	85	%
Gross density of products transported	~ 1400	kg/m³
Capacity utilisation volume factor	1	-

Table 4: Installation into the building (A5)

Scenario information	Value	Unit
Ancillary materials for installation	0	kg
Water use	0.00019	m³
Other resources use	0	kg
Electricity (Norwegian grid mix)	0.00063	MJ
Waste materials on building site before waste processing, generated by the product's installation (specified by type)	0.015 (wood) 0.0508 (plastics)	kg
Output materials (specified by type) as result of waste processing at the building site e.g. of collection for recycling, for energy recovery, disposal (specified by route)	6.58E-02 (recycling) 1.05E-02 (disposal)	kg
Direct emission to ambient air, soil and water	0	kg

Table 5: End of Life (C1-C4)

Scenario information	Value	Unit
Collected separately	0	kg
Collected with mixed construction waste	1	kg
Reuse	0	kg
Recycling	0.31	kg
Energy recovery	0	kg
Landfill	0.69	kg
Transport to recycling	100	km
Transport to landfill	100	km

6. CUT-OFF RULES AND ALLOCATION

Criteria for the exclusion of inputs and outputs (cut-off rules) in the LCA, information modules, and any additional information are intended to support an efficient calculation procedure. They are not applied in order to hide data. Cut-off criteria, where applied, are described in Table 6.

Table 6: Cut-off criteria

Process excluded from study	Cut-off criteria	Quantified contribution from process
A3: Production (auxiliary materials)	Less than 10^{-5} kg/kg of finished product	Sensitivity study demonstrates a relative contribution lower than 0.5%

For the allocation procedure and principles consider the following table (Table 7):

Table 7: Allocation procedure and principles

Module	Allocation Principle
A1	All data are referred to 1 kg of product A1: electricity is allocated to the specific production line
A3	All data are referred to 1 kg of packaged product A3-wastes: all data are allocated to the whole production plant

7. ENVIRONMENTAL PERFORMANCE AND INTERPRETATION

GWP

Climate change
GWPtotal - Global Warming Potential refers to the emission/presence of GHGs (greenhouse gases) in the atmosphere (mainly CO_2, N_2O, CH_4) which contribute to the increase in the temperature of the planet.
GWP-total considers:
- GWP-fossil
- GWP-biogenic
- GWP-luluc (land use and land use change)

ODP

Ozone Depletion
Ozone Depletion Potential refers to the degradation of the stratospheric layer of the ozone involved in blocking the UV component of sunrays. Depletion is due to particularly reactive components that originate from chlorofluorocarbon (CFC) or chlorofluoromethane (CFM).

AP

Acidification
Acidification Potential refers to the emission of specific acidifying substances (i.e. NOx, SOx) in the air. These substances decrease the pH of the rainfall with predictable damages to the ecosystem.

EP

Eutrophication
Eutrophication Potential refers to the nutrient enrichment, which determines unbalance in ecosystems and causes the death of the fauna and decreased biodiversity in flora.
It considers:
- EP-freshwater: acquatic freshwater
- EP-marine: acquatic marine
- EP-terrestrial

POCP

Photochemical ozone formation
The Photochemical Ozone Creation Potential is the ozone formation in low atmosphere. This is quite common in the cities where a great amount of pollutants (like VOC and NOx) are emitted every day (industrial emissions and vehicles). It is mainly diffused during the summertime.

ADP minerals&metals

Depletion of abiotic resources – minerals and metals
Abiotic Depletion Potential elements refers to the depletion of the mineral resources.

ADP - fossil

Depletion of abiotic resources – fossil fuel
Abiotic Depletion Potential fossil fuel refers to the depletion of the fossil fuel resources.

WDP

Water use
It expresses the potential deprivation of water, that consists in not having the water needs satisfied.

The following tables show the environmental impacts for the products considered according to the requirements of EN15804:2012+A2:2019/AC:2021. The results are referred to the declared unit (see § 4). The additional environmental indicators are not declared. The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. We discourage the use of the outcomes from modules A1-A3 without considering the results obtained from modules C

ULTRACOLOR PLUS FA

(1 kg of product with packaging)

Table 8: Ultracolor Plus FA: Potential environmental impact – mandatory indicators according to EN 15804 referred to 1 kg of product with packaging.

Indicator	Unit	A1 – A3	A4	A5	C1	C2	C3	C4	D
GWP_{TOTAL}	(kg CO_2 eq.)	6.13E-01	6.36E-02	1.07E-01	3.06E-03	8.13E-03	1.81E-02	1.03E-02	-3.31E-02
GWP_{FOSSIL}	(kg CO_2 eq.)	6.26E-01	6.35E-02	8.31E-02	3.06E-03	8.12E-03	2.61E-03	1.03E-02	-3.30E-02
$GWP_{BIOGENIC}$	(kg CO_2 eq.)	-3.15E-02	2.46E-05	2.36E-02	1.96E-06	3.14E-06	1.54E-02	3.17E-05	-2.30E-05
GWP_{LULUC}	(kg CO_2 eq.)	1.80E-02	7.43E-05	3.43E-06	1.94E-07	9.50E-06	2.00E-05	3.24E-05	-4.55E-06
ODP	(kg CFC 11 eq.)	1.42E-08	6.87E-15	1.98E-14	1.51E-14	8.78E-16	4.44E-15	2.65E-14	-1.16E-13
AP	(mol H^+ eq.)	3.82E-03	5.32E-05	4.58E-05	4.34E-06	7.06E-06	1.38E-05	7.39E-05	-3.91E-05
$EP_{FRESHWATER}$	(kg P eq.)	6.68E-05	3.21E-07	1.65E-08	1.84E-09	4.10E-08	9.03E-09	2.10E-08	-1.68E-08
EP_{MARINE}	(kg N eq.)	7.38E-04	2.21E-05	1.75E-05	9.67E-07	2.94E-06	6.35E-06	1.91E-05	-1.03E-05
$EP_{TERRESTRIAL}$	(mol N eq.)	7.39E-03	2.49E-04	1.99E-04	1.05E-05	3.32E-05	7.02E-05	2.10E-04	-1.13E-04
POCP	(kg NMVOC eq.)	2.30E-03	5.18E-05	4.56E-05	2.76E-06	6.83E-06	1.72E-05	5.77E-05	-2.92E-05
$ADP_{MINERALS\&METALS}$*	(kg Sb eq.)	2.01E-06	4.34E-09	2.62E-10	1.97E-10	5.54E-10	2.84E-09	4.82E-10	-1.92E-09
ADP_{FOSSIL}*	(MJ)	1.03E+01	8.54E-01	7.08E-02	5.23E-02	1.09E-01	5.22E-02	1.39E-01	-5.51E-01
WDP*	(m^3 world eq.)	2.27E-01	3.76E-03	1.86E-02	6.96E-04	4.81E-04	5.16E-04	1.14E-03	-5.11E-03

GWP_{TOTAL}: Global Warming Potential total; **GWP_{FOSSIL}**: Global Warming Potential fossil fuels; **$GWP_{BIOGENIC}$**: Global Warming Potential biogenic; **GWP_{LULUC}**: Global Warming Potential land use and land use change; **ODP**: Depletion Potential of the stratospheric Ozone layer; **AP**: Acidification Potential; **$EP_{FRESHWATER}$**: Eutrophication Potential, freshwater; **EP_{MARINE}**: Eutrophication Potential, marine; **$EP_{TERRESTRIAL}$**: Eutrophication Potential, terrestrial; **POCP**: Formation potential of tropospheric ozone; **$ADP_{MINERALS\&METALS}$**: Abiotic Depletion Potential for non-fossil resources; **ADP_{FOSSIL}**: Abiotic Depletion Potential for fossil resources; **WDP**: Water Deprivation Potential.

** the results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is a limited experienced with the indicator*

Table 9: Ultracolor Plus FA: Potential environmental impact – additional mandatory and voluntary indicators referred to 1 kg of product with packaging.

Indicator	Unit	A1 – A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG	(kg CO_2 eq.)	6.43E-01	6.36E-02	8.31E-02	3.06E-03	8.13E-03	2.64E-03	1.03E-02	-3.31E-02

GWP-GHG: The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Table 10: Ultracolor Plus FA: Use of resources referred to 1 kg of product with packaging.

Indicator	Unit	A1 – A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	1.00E+00	3.57E-02	1.35E-02	1.25E-02	4.57E-03	4.86E-03	2.26E-02	-9.48E-02
PERM	MJ	2.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.29E+00	3.57E-02	1.35E-02	1.25E-02	4.57E-03	4.86E-03	2.26E-02	-9.48E-02
PENRE	MJ	1.04E+01	9.18E-01	7.18E-02	5.24E-02	1.17E-01	5.23E-02	1.39E-01	-5.51E-01
PENRM	MJ	2.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	1.26E+01	9.18E-01	7.18E-02	5.24E-02	1.17E-01	5.23E-02	1.39E-01	-5.51E-01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m^3	5.36E-03	1.24E-04	4.38E-04	2.11E-05	1.59E-05	1.49E-05	3.51E-05	-1.64E-04

PERE: Use of renewable primary energy excluding renewable primary energy resources used as raw materials; **PERM**: Use of renewable primary energy resources used as raw materials; **PERT**: Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials); **PENRE**: Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; **PENRM**: Use of non-renewable primary energy resources used as raw materials; **PENRT**: Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials); **SM**: Use of secondary material; **RSF**: Use of renewable secondary fuels; **NRSF**: Use of non-renewable secondary fuels; **FW**: Net use of fresh water.

Table 11: Ultracolor Plus FA Waste production and output flows referred to 1 kg of product with packaging.

Indicator	Unit	A1 – A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	4.85E-02	2.98E-12	-3.48E-12	-2.54E-12	3.22E-13	-9.15E-14	1.31E-12	-1.03E-11
NHWD	kg	2.29E-02	1.46E-04	5.31E-03	2.39E-05	1.59E-05	9.29E-06	3.00E-01	-7.96E-05
RWD	kg	6.73E-04	1.80E-06	9.46E-06	5.16E-06	1.95E-07	4.74E-07	6.85E-07	-1.20E-05
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	2.52E-03	0.00E+00	2.66E-02	0.00E+00	0.00E+00	7.00E-01	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	2.98E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	4.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.18E-02
Exported energy, thermal	MJ	0.00E+00	0.00E+00	7.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.85E-02

HWD: Hazardous waste disposed; **NHWD**: Non-Hazardous waste disposed; **RWD**: Radioactive waste disposed

Table 12: Ultracolor Plus FA: Information on biogenic carbon content at the factory gate referred to 1 kg of product with packaging.

Biogenic Carbon Content	Unit	Quantity
Biogenic carbon content in product	kg C	0.00E+00
Biogenic carbon content in packaging	kg C	6.45E-03

Tables from 8 to 12 show absolute results for all the environmental categories considered.
The main contribution to the environmental impact categories in the product life cycle comes from **module A1** (extraction and processing of raw materials). Its relative contribution is over 50% in all the categories and in most of them it's higher than 90%. Referring to the biogenic carbon stored in product and packaging, the negative impacts on $GWP_{BIOGENIC}$ (in **modules A1** and **A3**) is compensated in the **modules A5** and **C3**, when the product and packaging reach their end of life. A minor contribution in GWP_{FOSSIL} and ADP_{FOSSIL} is due to the manufacturing process (**Module A3**).
An overview about the average contribution to the different modules considered in the system boundaries are shown in Table 13.

Table 13: Some environmental impacts of Ultracolor Plus FA

ENVIRONMENTAL IMPACT	A1-A3	A4	A5	C1	C2	C3	C4	D	TOT
CLIMATE CHANGE (TOTAL)	6,13E-01	6.36E-02	1.07E-01	3.06E-03	8.13E-03	1.81E-02	1.03E-02	-3.31E-02	**7.89E-01** kg CO_2 eq.
ACIDIFICATION	3,82E-03	5.32E-05	4.58E-05	4.34E-06	7.06E-06	1.38E-05	7.39E-05	+3.91E-05	**3.98E-03** mol H+ eq.
DEPLETION OF ABIOTIC RESOURCES (FOSSIL)	1,03E+01	8.54E-01	7.08E-02	5.23E-02	1.09E-01	5.22E-02	1.39E-01	-5.51E-01	**1.10E+01** MJ
WATER USE	2,27E-01	3.76E-03	1.86E-02	6.96E-04	4.81E-04	5.16E-04	1.14E-03	-5.11E-03	**2.47E-01** m^3 world eq.

More details about electrical mix used in this EPD is shown below:

	Data source	GWP-GHG	Unit
Electricity residual mix (US) - 2020	IEA	0.653	kg CO_2-eqv/kWh
Electricity residual mix (CAN) - 2020	IEA	0.558	kg CO_2-eqv/kWh

** EN15804+A2*

8. DATA QUALITY

Table 14: Data quality

Dataset & Geographical reference	Database (source)	Temporary reference
A1; A3		
Inorganic Binders	Sphera Database;	2021-2026
Organic Binders	Sphera Database;	2015
Fillers	Sphera Database; Ecoinvent 3.8	2022
Additives	Ecoinvent 3.8	2022
Residual electricity grid mix (US/CAN)	Sphera Database	2022
Packaging components (EU)	Sphera Database;Ecoinvent 3.8;	2022
A2		
Truck, Euro 5, 27t payload (GLO)	Sphera Database	2022
Light train, gross tonne weight 500t / 363t payload (GLO)	Sphera Database	2022
Oceanic ship (27500 DWT – GLO)	Sphera Database	2022
Diesel for transport (US)	Sphera Database	2018
Heavy Fuel Oil (US)	Sphera Database	2018
Electricity grid mix (US)	Sphera Database	2018
A4		
Truck, Euro 5, 27t payload (GLO)	Sphera Database	2022
Diesel for transport (US)	Sphera Database	2018
A5		
Tap water from surface water	Sphera Database	2022
Commercial waste in municipal waste incineration plant	Sphera Database	2022
Inert matter on landfill	Sphera Database	2022
Electricity grid mix (US)	Sphera database	2018
C1-C4		
Truck (EURO 6 - 9,3 ton payload – GLO)	Sphera Database	2022
Electricity grid mix (US)	Sphera Database	2018
Diesel for transport (US)	Sphera Database	2018
Construction waste dumping (EU)	Sphera Database	2022
Construction waste treatment (EU)	Sphera Database	2022

All data included in table above refer to a period between 2015 and 2022; the most relevant ones are specific from supplier, while the others (i.e. transport and minor contribution dataset), come from European and global databases.

All datasets are not more than 10 years old according to EN 15804 §6.3.8.2 “Data quality requirements”. The Quality level concerning datasets used in the EPD can be considered as “very good” or “good” according to Annex E of the EN 15804 (current version);

Primary data concern the year 2022 and represent the whole annual production.

9. ADDITIONAL INFORMATION

9.1 CO_2 offset

Total CO_2 emissions measured throughout the entire life cycle have been offset through the purchasing of certified carbon credits in support of renewable energy and forestry protection projects.

9.2 Traci 2.1

Indicator	Unit	A1-A3
AP	(kg SO_2 eq.)	4.48E-03
EP	(kg N eq.)	8.13E-04
GWP excl. biogenic carbon	(kg CO_2 eq.)	6.19E-01
GWP incl. biogenic carbon	(kg CO_2 eq.)	5.85E-01
ODP	(kg CFC_{11} eq.)	1.49E-08
Resources	(MJ)	1.03E+00
SFP	(kg O_3 eq.)	4.08E-02
IPCC AR5 GWP100	(kg CO_2 eq.)	6.51E-01
ADPFOSSIL – CML 2001 -Jan 2016	(MJ)	1.00E+01

AP: Acidification Potential; **EP**: Eutrophication Potential; **GWP**: Global Warming Air, excl. biogenic carbon; **ODP**: Depletion Potential of the stratospheric Ozone layer; Resources: **Resources**, Fossil fuels [MJ surplus energy] **SFP**: Smog Formation Potential; **IPCC AR5**: GWP_{100}, incl. cc fb, excl. biogenic carbon; **ADP_{FOSSIL}**: Abiotic Depletion Potential for fossil resources;

9.3 Disassembly

The finished product is potentially suitable for disassembly through selective demolition.

9.4 Biogenic Content

The biogenic carbon content in packaging at the factory gate referred to 1 kg of product with packaging is 6.45E-03.

9.5 VOC emission

The product has been tested with CDPH/EHLB Standard Method (CA 01350) v1.2-2017.

Ultracolor Plus FA meets all of the necessary qualifications to be certified for the following claim: **Indoor Advantage™ Gold** Indoor Air Quality Certified to SCS-EC10.3-2014 v4.1

- Registration: # SCS-IAQ-06041

10. DIFFERENCES VERSUS PREVIOUS VERSION

2023-12-22: New primary data referred to 2022 has been adopted; more info regarding the end of life stages, module A4-A5 and module D has been added. Moreover, additional data quality information has been included in chapter 8. Minor editorial changes have been made in the document.
2024-01-11: Editorial Changes.

11. VERIFICATION AND REGISTRATION

The EPD owner has the sole ownership, liability, and responsibility for the EPD.
EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

CEN standard EN15804 served as the Core Product Category Rules (PCR)	
PCR:	PCR 2019:14 Construction products (EN 15804:A2), Version 1.3.1, 2021-02-05, UN CPC code 54
PCR review was conduct-ed by:	The Technical Committee of the International EPD® System. See www.environdec.com/TC for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.
Independent third-party verification of the declaration and data, according to ISO 14025:2006:	☒ EPD Process Certification ☐ EPD Verification
Third party verifier:	Certiquality S.r.l. Number of accreditations: 0008PRD rev.000
Accredited or approved by:	Accredia
Procedure for follow-up of data during EPD validity involves third-party verifier	☒ Yes ☐ No

12. REFERENCES

- EN 15804: SUSTAINABILITY OF CONSTRUCTION WORKS - ENVIRONMENTAL PRODUCT DECLARATIONS - CORE RULES FOR THE PRODUCT CATEGORY OF CONSTRUCTION PRODUCTS
- GENERAL PROGRAMME INSTRUCTIONS OF THE INTERNATIONAL EPD® SYSTEM. VERSION 4.0
- ISO 14025 ENVIRONMENTAL LABELS AND DECLARATIONS - TYPE III ENVIRONMENTAL DECLARATIONS - PRINCIPLES AND PROCEDURES
- ISO 14044 ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT – REQUIREMENTS AND GUIDELINES
- PCR 2019:14 CONSTRUCTION PRODUCTS (EN 15804: A2), UN CPC CODE 54; VERSION 1.3.1
- UNITED STATES RESIDUAL MIXES - IEA WEBSITE - TOTAL ENERGY SUPPLY (TES) BY SOURCE
- CANADA RESIDUAL MIXES - IEA WEBSITE - TOTAL ENERGY SUPPLY (TES) BY SOURCE
- EPA, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY - NATIONAL OVERVIEW: FACTS AND FIGURES ON MATERIALS, WASTES AND RECYCLING

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www.mapei.com/us

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SUSTAINABILITY PRODUCT REPORT

Building a SUSTAINABLE future together

Ultracolor® Plus FA

Rapid-Setting, "All-in-One" Grout Replacement for Sanded and Unsanded Grouts

Product Summary

MAPEI Product Line(s)	Tile & Stone Installation Systems / Products for the Marine Industry
Product Information	Link to Product Page

Volatile Organic Compounds

VOC Content	See TDS on Product Page.
Standard	SCAQMD Rule #1168
Product Type	Cement Grouts
VOC Emissions Certification CDPH Standard Method v1.2-2017	SCS Global Services Indoor Advantage Gold

Material Ingredient Reporting

Material Ingredient Report	3rd Party Verified Manufacturer Inventory
For additional material ingredient information that is not shown on the table above, contact us at sustainability_USA@mapei.com.	

Red List Free

Red List Letter Applicable for Living Building Challenge projects. Not applicable for LEED projects.	Request a project-specific Red List Letter

Environmental Product Declaration (EPD)

EPD Program Operator	EPD International AB
EPD Type	Product-Specific EPD

Recycled Content

Post-Consumer	0%
Pre-Consumer	0%

Regional Criteria

Extraction Locations	Not Available
Manufacturing Locations Not applicable for LEED projects.	Request Manufacturing Locations

Green Squared Certification

Green Squared / ANSI A138.1-2011 v2 for Tile Installation Materials	Not Applicable

MAPEI's Green Product Certifications Contribute to Green Building Certifications

LEED v4/4.1 MR credit: Environmental Product Declarations (EPDs) - Option 1	✓
LEED v4/4.1 MR credit: Sourcing of Raw Materials - Recycled Content	
LEED v4/4.1 MR credit: Material Ingredients - Option 1; 3rd-Party Verified (with 1.5 products under v4.1)	✓
LEED v4/4.1 IEQ credit: Low-Emitting Materials	✓
LEED v4/4.1 Innovation credit: Certified Multi-Attribute Products and Materials – Green Squared	
Living Building Challenge Health + Happiness Imperative 10 Healthy Interior Performance	✓
Living Building Challenge Materials Imperative 12 Responsible Materials	✓
Living Building Challenge Materials Imperative 13 Red List	Ask MAPEI
Living Building Challenge Materials Imperative 15 Living Economy Sourcing	Ask MAPEI
WELL v2 X06 Materials Feature VOC Restrictions	✓
WELL v2 X07 Materials Feature Materials Transparency – Part 1; Part 3	✓
WELL v2 X08 Materials Feature Materials Optimization – Part 1	Ask MAPEI

Optimized Product Impact Areas

Human Health	✓
Climate Health	✓
Ecosystem Health	
Social Health & Equity	✓
Circularity	✓

***SCS Global Services** does hereby certify that an independent assessment has been conducted on behalf of:*

MAPEI Corp.

1144 E. Newport Center Drive, Deerfield Beach, Florida 33442, United States

For the following product(s):

See Addendum

The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):

Indoor Advantage™ Gold

Indoor Air Quality Certified to SCS-105 v4.2-2023

Conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the private office, school classroom, and single-family residence parameters[1].

[1] Modeled as Flooring

Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with CDPH/EHLB Standard Method v1.2-2017)

Registration # SCS-IAQ-11084
Valid from: March 23, 2025 to March 22, 2026

Diana Kirsanova Phillips, Chief Assurance Officer,
SCS Global Services

Certification Addendum
MAPEI Corp.

Certification: Registration # SCS-IAQ-11084 | Valid from: March 23, 2025 to March 22, 2026

Addendum Conformance: **Indoor Advantage™ Gold**
Indoor Air Quality Certified to SCS-105 v4.2-2023
Conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the private office, school classroom, and single-family residence parameters[1].
[1] Modeled as Flooring
Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with CDPH/EHLB Standard Method v1.2-2017)

Products:

Architectural Coatings:
Additives: Additix PE
Admixtures: Mapecure SRA
Caulks: Mapesil 3D
Cement Grouts: 2-1/2 to 1, Keracolor S, Keracolor U, Ultracolor Plus FA, Ultracolor Plus MAX, Ultracolor Plus Extend
Cement-Based Flooring Systems: Mapecolor CPU, Mapecolor Paste
Concrete Repair Mortars: Mapecem 102, Mapecem 202, Topcem Pronto
Construction Grouts: Planigrout 712, Planigrout 728, Planigrout 740, Planigrout 755, Planigrout PT, Mapefill 130 WT, Stabilcem AG
Corrosion Protection: Mapefer 1K
Dry-Set Mortars: Floor Tile Mortar, Kerabond, Kerabond T, Keraflor, Keraset, Uncoupling Membrane Mortar
Exterior Finishing: Concrete Renew, Concrete Renew Fine, Planitop Basecoat
Fiber-Reinforced Mixture for 3D Printing: Planitop 3D
Lightweight Polymer Modified Mortars: Ultralite Mortar, Ultralite Mortar Pro, Ultralite Mortar Zero, Ultralite S1 Quick, Ultralite S2, Light Mortar for Tile and Stone
Manufactured Stone Veneer Systems: MapeBond VM, MapeBond VM Super, MapeBond VM Lite, MapeBond VM Super Rapid
Mortar Grout: Novoplan 710 SL, Planiseal ESP

Certification Addendum

MAPEI Corp.

Certification: Registration # SCS-IAQ-11084 | Valid from: March 23, 2025 to March 22, 2026

Addendum Conformance: **Indoor Advantage™ Gold**
Indoor Air Quality Certified to SCS-105 v4.2-2023
Conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the private office, school classroom, and single-family residence parameters[1].
[1] Modeled as Flooring
Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with CDPH/EHLB Standard Method v1.2-2017)

Products:

Mud Beds, Render Mortars and Repair Systems: 4 to 1 Mud Bed Mix, Mapecem Premix, Modified Mortar Bed, Planislope RS, Planitop 330 Fast, Scratch Coat Mortar, Topcem Premix
Patching and Skimcoating Compounds: Tilt Finish, Planiprep PSC, Planiprep RMP, Mapecem Quickpatch, Planipatch, Planiprep SC
Polymer-Modified Mortars: Adesilex P10 Mosaic and Glass Tile,Adesilex P10 RS Mosaic and Glass Tile, Ceramic Tile Mortar, Ker 111, Ker 121, Keraflex Plus, Keraflex RS, Keraflex SG, Keraflex Super, Keraflex Membrane Mortar, Large and Heavy Pro Tile Mortar, Large Tile & Stone Mortar, Large-Format Floor & Wall Tile Mortar, Large-Format Floor Tile Mortar, Mosaic & Glass Tile Mortar, Multipurpose Tile Mortar, Porcelain Tile Mortar, Rapid Setting Tile Mortar, Ultraflex 1, Ultraflex 2, Ultraflex 2 LT, Ultraflex LFT, Ultraflex LFT Rapid, Ultraflex LHT, Ultraflex LHT SG, Ultraflex RS
Resin Flooring Systems: Mapefloor Filler
Resinous Flooring Epoxy Mortars: Mapefloor EP 19, Mapefloor EP 20
Screed Mortars: Mapecem 100, Mapecem 202 SF
Sealants and Joint Fillers: Mapeflex Joint Filler EP 90/50, Mapeflex Joint Filler PO 95/100
Self-Leveling Underlayments and Primers: Ultraplan M20 Plus, Novoplan 1, Novoplan 2 Plus, Novoplan DPL, Novoplan Easy Plus, Novoplan HFL, Novoplan SP, Planitex SLF, Self-Leveler Plus, Ultraplan 1 Plus, Ultraplan Easy, Ultraplan Extreme 2, Ultraplan HFL, Ultraplan Lite, PlaniLevel 360, PlaniLevel 420, PlaniLevel 450, PlaniLevel 500, PlaniLevel 560
Specialty Mortars and Adhesives: Glass-Block Mortar
Strengthening Concrete and Steel Structures: Planitop HPC Floor 46

Certification Addendum

MAPEI Corp.

Certification: Registration # SCS-IAQ-11084 | Valid from: March 23, 2025 to March 22, 2026

Addendum Conformance: **Indoor Advantage™ Gold**
Indoor Air Quality Certified to SCS-105 v4.2-2023
Conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the private office, school classroom, and single-family residence parameters[1].
[1] Modeled as Flooring
Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with CDPH/EHLB Standard Method v1.2-2017)

Products:

Surface Preparation Products: Planiseal Mastic
Urethane Finishes: Mapefloor Finish 53 W/L, Mapefloor Finish 54 W/S
Waterproofing: Planiseal 88, Planiseal Plug
Waterproofing Accessories: Mapeproof Sealant, Mapethene Mastic