



Ultrabond G19®

Professional Two-Part Urethane Flooring Adhesive



DESCRIPTION

Ultrabond G19 is a two-part reactive adhesive specially designed for installation of floor coverings that demand a high-performance adhesive, such as sports flooring. *Ultrabond G19* is excellent for high-performance indoor/outdoor installations of all types of floor coverings that demand reliable results in various weather conditions. This adhesive aggressively adheres all types of floor coverings to properly prepared metal, and many other difficult-to-bond-to substrates. It is recommended for the installation of homogenous PVC, solid vinyl tile and planks, rubber sheet flooring, rubber tile (including radial rubber tile), rubber stair treads, wood parquet floors, vinyl composition tile (VCT), artificial-grass indoor/outdoor carpet, linoleum, mineral fibrous felt-backed sheet goods, carpet, and all types of cork flooring and underlayments.

FEATURES AND BENEFITS

- Outstanding adhesion in heavy and extra heavy traffic areas
- Resistant to high and low temperatures
- Interior and exterior use

INDUSTRY STANDARDS AND APPROVALS

- RFCI IP #1 – Recommended Installation Practice for Homogeneous Sheet Flooring, Fully Adhered
- RFCI IP #2 – Recommended Installation Practice for Vinyl Composition Tile
- RFCI's Recommended Work Practices for Removal of Resilient Floor Coverings

LEED Points Contribution

LEED Points

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

* 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

- Interior and exterior residential (rental apartments, condominiums, etc.)
- Interior and exterior commercial (office buildings, cafeterias)
- Interior and exterior heavy commercial (shopping malls, grocery stores, department stores)
- Interior and exterior institutional (hospitals, schools, universities, libraries, government buildings)

LIMITATIONS

- Do not install over any substrates containing asbestos.
- Do not install when the moisture vapor emission rate (MVER) exceeds 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity of concrete slabs exceeds 80% (ASTM F2170).
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient relative humidity is below 65%.



SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type
- Other approved wood underlayments (per manufacturer recommendations)
- Concrete and properly prepared cement terrazzo
- Cement-based self-leveling underlayments and patching compounds
- Embossing levelers applied over existing, properly prepared and fully bonded ceramic tile
- A single layer of properly prepared, fully bonded VCT
- Properly prepared and primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Asphaltic surfaces that are sound and free from contamination

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

SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. All surfaces must be level, even, flat and smooth.
- Concrete and cement-based underlayments and patches must be fully cured and free of any hydrostatic and/or moisture problems.
- Use anhydrous calcium chloride tests to determine MVER according to ASTM F1869.
- Concrete slabs exceeding 5 lbs. (2,27 kg) in MVER should be treated with a moisture vapor reduction product. Refer to Technical Data Sheets at www.mapei.com for information on these products.
- Use a moisture meter to check the relative humidity of the flooring, substrate surface and general jobsite area. Follow the flooring manufacturer's guidelines.
- Refer to MAPEI's "Surface Preparation Requirements" document for floor-covering installation systems at www.mapei.com.

MIXING

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

- Wear rubber gloves and avoid skin contact during mixing, application and cleaning.
- Parts A and B are packaged to exact quantity ratios for maximum performance.

- Protect flooring from adhesive spills.
- Pour all material out of the Part B (liquid) container into Part A (paste). Place the cap back on the Part B container and turn the container upside-down to ensure that all remaining material drains into the cap. Pour the remaining material into Part A. Always mix complete units. Do not add other materials to this mixture.
- Use a low-speed mixer to ensure that the material is mixed thoroughly to a smooth, homogenous paste consistency (generally within 3 minutes). Do not allow the mixed product to sit in the container. Immediately after mixing, apply the adhesive to the substrate.
- Wash all tools with mineral spirits immediately after mixing. Once cured, *Ultrabond G19* can be removed only by mechanical means.

PRODUCT APPLICATION

1. Use a typical notched trowel (see "Product Performance Properties" section) and consult the floor-covering manufacturer's recommendation regarding the proper trowel to use, ensuring 100% coverage of the flooring material's backing.

2. Do not spread more adhesive than can be covered with floor covering within 40 minutes. After spreading the adhesive, immediately install the flooring material into the adhesive while it is still fresh. Periodically lift the material to confirm proper adhesive transfer to the backing.

Note: The floor temperature directly affects setting time. The warmer it gets, the faster it sets; the cooler it gets, the slower it sets.

3. Roll the flooring surface across the width and length with the manufacturer's recommended roller to break down adhesive ridges and to ensure complete removal of trapped air. Pull (rather than push) the roller, so that footprints are not left on the floor.
4. Complete the installation per the flooring manufacturer's instructions.
5. Because the initial grab of *Ultrabond G19* is low, it is sometimes necessary to apply weights, particularly at the seams, to maintain contact until the adhesive sets.

CLEANUP

While the adhesive is still fresh, promptly use mineral spirits to clean adhesive smudges from the flooring material's surface and the tools. Once cured, the adhesive can only be removed by mechanical means.

PROTECTION

Do not walk on the flooring until 12 hours after the installation. If walking on the floor is necessary before this time, lay plywood boards across the floor to disperse the load. Movement of the flooring while the adhesive is setting may affect the bond. Do not allow heavy traffic until 36 hours after the installation.

Product Performance Properties

| Laboratory Tests | Results |
|--|--|
| Polymer type | Epoxy modified polyurethane |
| Percent solids | 90% to 100% |
| VOCs (Rule #1168 of California's SCAQMD) | 38 g/L |
| Pot life | 50 minutes |
| Trowelability | Light, easy |
| Density | 11.7 +/- 0.8 lbs. per U.S. gal. (1,40 +/- 0,1 g per mL) |
| Consistency | Creamy |
| Color | Off-white |
| Shelf life | 2 years when stored in original packaging at 73°F (23°C) |
| Storage conditions | 40°F to 100°F (4°C to 38°C) |
| Flash point | Part A: 104°F (40°C) Part B: 59°F (15°C) |
| Protect from traffic | 16 hours for light traffic, 36 hours for heavy traffic |

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Table

| Application Characteristics | | |
|-----------------------------|--------------------|----------------------------|
| | Flash [†] | Working Time ^{††} |
| All flooring types | 0 minutes | 60 minutes |

[†] Flash is the waiting time required before installing flooring.





^{††} Working time is the window of time for the adhesive to accept flooring.

Note: Flash time and working times may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

Packaging

| Product Code | Size |
|----------------|----------------------------|
| Canada 3050006 | Kit: 1 U.S. gal. (3,79 L) |
| 3050007 | Kit: 2 U.S. gals. (7,57 L) |

Approximate Product Coverage*

| Flooring Type | Typical Trowel | Coverage* |
|---|---|---|
| Solid vinyl sheet, tile and plank; vinyl composition tile | 1/32" x 1/16" x 1/32" (1 x 1,5 x 1 mm)  | 185 to 245 sq. ft. per U.S. gal. (4,53 to 6,0 m ² per L) |
| Rubber flooring, linoleum, cork flooring | 1/16" x 1/16" x 1/16" (1,5 x 1,5 x 1,5 mm)  | 125 to 185 sq. ft. per U.S. gal. (3,06 to 4,53 m ² per L) |
| Wood parquet | 1/8" x 1/8" x 1/8" (3 x 3 x 3 mm)  | 40 to 50 sq. ft. per U.S. gal. (0,98 to 1,22 m ² per L) |
| Rough-backed carpet, reground rubber flooring, sport floors | 3/32" x 3/32" x 3/32" (2,5 x 2,5 x 2,5 mm)  | 70 to 80 sq. ft. per U.S. gal. (1,71 to 1,96 m ² per L) |

* Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices.

Ultrabond® G19



RELATED DOCUMENTS

| | |
|---|----------|
| Reference Guide: Surface Preparation Requirements for floor-covering installation systems | RGF0409* |
|---|----------|

* At www.mapei.com.

Refer to MAPEI's 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:



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