



# Ultrabond G19<sup>®</sup>

## Professional, Two-Part, Urethane Flooring Adhesive



### DESCRIPTION

*Ultrabond G19* is a two-part, epoxy-modified, polyurethane reactive adhesive specially designed for the installation of floor coverings in high-performance applications in both interior and exterior applications.

### 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

### WHERE TO USE

- Interior and exterior residential and commercial use 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

### LIMITATIONS

- Do not install over any substrates containing asbestos.
- Do not install in interior applications when the moisture vapor emission rate (MVER) exceeds 8 lbs. per 1,000 sq. ft. (3.63 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install in interior applications when the relative humidity of concrete slabs exceeds 95% (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%.
- Do not install unless the surface temperature of the substrate is 5 degrees F (2.8 degrees C) above the dew point.
- Do not install when the pH is greater than or equal to 12.

### SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type and other approved wood underlayments (per manufacturer recommendations)
- Concrete and cement terrazzo
- Cement-based, self-leveling underlayments and patching compounds
- Embossing levelers applied over existing and fully bonded ceramic tile
- A single layer of fully bonded VCT
- Properly primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Clean metal surfaces such as access panel floors and elevator pans
- 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.
- Follow the flooring manufacturer's guidelines.

See the "Surface preparation requirements" reference guide in the Floor Covering Installation Systems section of MAPEI's Website.

## **MIXING**

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

1. Wear rubber gloves and avoid skin contact during mixing, application and cleaning.
2. Parts A and B are packaged to exact quantity ratios for maximum performance.
3. Protect flooring from adhesive spills.
4. 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.
5. 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.
6. Clean all tools with mineral spirits immediately after mixing. Once cured, *Ultrabond G19* can be removed only by mechanical means.

## **PRODUCT APPLICATION**

Read all installation instructions thoroughly before installation.

1. Use a typical notched trowel (see the "Approximate Coverage" section below) 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.

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.

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

Note: 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
Solids content	90% to 100%
VOCs (Rule #1168 of California's SCAQMD)	29 g per L
Density	11.7 +/- 0.8 lbs. per U.S. gal. (1.40 +/- 0.1 g per mL)
Flash point	Part A: 98°F (37°C) Part B: > 200°F (93°C)

## Shelf Life and Product Characteristics before mixing

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	40°F to 100°F (4°C to 38°C)

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

Consistency	Creamy
Color	Off-white
Pot life	50 minutes
Trowelability	Light, easy
Flash time <sup>†</sup>	0 minutes
Working time <sup>††</sup>	60 minutes
Protect from traffic	16 hours for light traffic, 36 hours for heavy traffic

<sup>†</sup> Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of a floor covering.

<sup>††</sup> Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

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

## Approximate Coverage\*

Flooring Type	Typical Trowel	Coverage
Solid vinyl sheet, tile and plank; VCT	1/32" x 1/16" x 1/32" (1 x 1.5 x 1 mm) U-notch	100 to 120 sq. ft. per U.S. gal. (2.45 to 2.94 m <sup>2</sup> per L)
Rubber flooring, linoleum, cork flooring	1/16" x 1/16" x 1/16" (1.5 x 1.5 x 1.5 mm) square-notch	80 to 100 sq. ft. per U.S. gal. (1.96 to 2.45 m <sup>2</sup> per L)
Wood parquet	1/8" x 1/8" x 1/8" (3 x 3 x 3 mm) square-notch	40 to 50 sq. ft. per U.S. gal. (0.98 to 1.22 m <sup>2</sup> 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) V-notch	70 to 80 sq. ft. per U.S. gal. (1.71 to 1.96 m <sup>2</sup> per L)

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

## Packaging

Size
Kit: 1 U.S. gal. (3.79 L)

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## RELATED DOCUMENTS

Reference guide: "Surface preparation requirements" for floor-covering installation systems\*

\* At [www.mapei.com](http://www.mapei.com)

Refer to the SDS for specific data related to health and safety as well as product handling.

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