

Ultrasport PU 2K

Premium, Two-Part, Polyurethane Sports-Flooring Adhesive



DESCRIPTION

Ultrasport™ PU 2K is a low-VOC, two-part reactive adhesive designed for indoor sports-flooring installations. This adhesive is suitable to bond all types of sports floor coverings to properly prepared metal, asphalt pavement and many other difficult-to-bond-to substrates. It is recommended for the installation of PVC-backed flooring, solid vinyl tile and planks, rubber sheet flooring, rubber tile, rubber stair treads, wood parquet floors, carpet, linoleum, mineral fibrous felt-backed sheet goods, carpet, and all types of cork flooring and underlayments.

FEATURES AND BENEFITS

- Perfect for all exercise equipment areas
- Outstanding adhesion in areas with extra heavy traffic and rolling loads, such as weight rooms and running tracks
- Excellent for applications subject to freezing and intermittent surface water exposure

INDUSTRY STANDARDS AND APPROVALS

Green certifications

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.

WHERE TO USE

- Interior/exterior residential applications
- Interior/exterior commercial applications
- Interior/exterior heavy commercial applications
- Interior/exterior institutional applications

LIMITATIONS

- Do not install over any substrates containing asbestos.
- Do not install when the moisture vapor emission rate (MVER) exceeds 15 lbs. per 1,000 sq. ft. (6.80 kg per 92.9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity (RH) 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 RH is below 65%.
- Do not install in areas with known hydrostatic moisture, osmotic blistering or alkali silica reaction conditions.

SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type
- Other approved wood underlayments (per manufacturers' 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 vinyl composition tile (VCT)
- Primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Fully cured asphaltic surfaces

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.
- Substrates 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.
- Concrete slabs exceeding 15 lbs. (6.80 kg) in MVER and above 95% RH should be treated with a moisture-vapor-reduction product, according to the corresponding Technical Data Sheet at www.mapei.com.

See the “Surface preparation requirements” reference guide in the Floor Covering Installations 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. Protect the flooring from adhesive spills.
3. Pour all material out of the two Part B (liquid) bottles into the Part A (paste) pail. 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.
4. Use a low-speed mixer to ensure that the material is mixed thoroughly to a smooth, homogenous paste consistency (generally within 3 minutes).
5. Always mix complete units; Parts A and B are packaged to exact quantity ratios for maximum performance. Do not add other materials to this mixture.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Do not allow the mixed product to sit in the container. Immediately after mixing, apply the adhesive to the substrate.
2. Consult the floor-covering manufacturer for recommendations on the proper trowel to use, to ensure sufficient coverage on the flooring material’s backing. See the “Approximate Coverage” chart below for typical notched trowels.
3. 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 sufficient adhesive transfer to the backing.
4. 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.
5. Complete the installation per the flooring manufacturer’s instructions.
6. Because the initial grab of *Ultrasport PU 2K* is low, it is sometimes necessary to apply weights, particularly at the seams, to maintain contact until the adhesive sets.
7. Note that the floor temperature directly affects setting time. The warmer the adhesive gets, the faster it sets; the cooler it gets, the slower it 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 24 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 72 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)	36 g per L
Density	11.1 +/- 0.8 lbs. per U.S. gal. (1.33 +/- 0,1 g per mL)
Flash point	
Part A	> 200°F (93°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

Trowelability	Light, easy
Consistency	Creamy
Color	Gray
Pot life	1 hour
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic
Flash time*	0 minutes
Working time**	80 minutes

* Flash time is the waiting time required before installing flooring.

** Working time is the window of time for the adhesive to accept flooring.

Flash time, working time and setting time vary based on temperature, humidity, surface porosity and jobsite conditions. For example, high heat and humidity can reduce working time and setting time; low temperatures and humidity can extend working time and setting time.

Product Performance Properties

Size
Kit: 2 U.S. gals. (7.57 L)
1 pail, Part A: 1.7 U.S. gals. (6.44 L)
2 bottles, Part B: 0.15 U.S. gal. (0.57 L)

Approximate Coverage***

Flooring Type	Typical Trowel	Coverage
Solid vinyl sheet, tile and plank	1/32" x 1/16" x 1/32" (1 x 1.5 x 1 mm), U-notch	110 to 140 sq. ft. per U.S. gal. (2.69 to 3.43 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), square-notch	80 to 100 sq. ft. per U.S. gal. (1.96 to 2.45 m ² 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 ² per L)
Rough-backed carpet; reground rubber flooring (sports 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 ² 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.

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-durabilite@mapei.com.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **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.**

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

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