



Solvent-Free Two-Component Urethane Adhesive

DESCRIPTION

A two-component urethane adhesive for high performance indoor-outdoor installation of all types of carpet, resilient tile and sheet goods, as well as wood parquet and rubber floor coverings over quality underlayment surfaces. Good resistance to humidity, water, weather and heat. Outstanding adhesion and elasticity at low temperatures.

USES

Recommended for the installation of:

1. **Carpet:** jute, polypropylene (Action Bac[®]), latex, sponge, rubber backed, Unibond[®], needle punched, urethane foam and unitary back, vinyl back, artificial grass carpet.
2. **Sheet goods:** mineral fibrous backed vinyl, linoleum, rubber, vinyl backed, vinyl foam backed, urethane backed, homogeneous vinyl.
3. **Resilient tile:** vinyl composition tile, cork, homogeneous vinyl rubber (including radial rubber tile).
4. **Others:** wood parquet floors.

LIMITATIONS

1. Do not mix or apply at temperatures is below 50°F (10°C) or above 86°F (30°C).
2. Do not lay floor covering with ULTRA/BOND G21 on asphalt screeds aged less than 20 days.
3. Do not apply directly over gypsum based surfaces.
4. Do not apply directly over cutback adhesive.
5. For homogeneous and laminated vinyl sheet goods thinner than 1/8" (3,0 mm) please contact MAPEI's technical service department before beginning the installation.

RECOMMENDED SUBSTRATES

- Exterior grade plywood, Group 1, CC type or similar performing underlayment qualities
- Fully cured concrete (at least 28 days old)
- Non-porous surfaces (consult MAPEI's technical service department for additional information)
- Steel, galvanized steel
- Properly prepared existing

vinyl floors (non-cushioned, free of wax, etc.)

- Asphaltic surfaces

Note: It is recommended that all new concrete slabs be tested for hydrostatic pressure. Simply test by placing a rubber mat 2 x 3 ft (60 x 100 cm) over concrete and tape edges. Moisture or dark areas that are noticeable under a mat after 24 hours indicates that this adhesive should not be used. A test using calcium carbide can also be done to determine the exact quantity of moisture contained in the concrete slab.

SETTING INSTRUCTIONS

1. Surface preparation

SEE SURFACE PREPARATION SHEET [A]

2. Mixing




- 2.1 Wear rubber gloves and avoid skin contact during mixing, application and cleaning.
- 2.2 PARTS A & B are packaged to EXACT QUANTITY RATIOS for proper curing.
- 2.3 **POUR ALL MATERIAL** out of the Part B (catalyst) container into the Part A (paste). To improve flowability and texture, allow enough time for the material to flow completely out of the container. Always mix complete units. Do not add other materials to this mixture.
- 2.3 Use a slow speed mixer, less than 300 RPM, or manually mix smaller kits with a margin trowel. Mix thoroughly to achieve a smooth, homogeneous paste consistency.
- 2.4 Avoid air entrapment and prolonged mixing which will shorten the pot life.
- 2.6 Wash all tools and hands with water immediately after mixing.

3. Application

- 3.1 Use the recommended notched trowels (see technical data) with sufficient depth to ensure proper adhesive transfer covering 100% of the backing.
- 3.2 Spread adhesive evenly. Do not spread more adhesive

than can be covered within 30 minutes.

- 3.3 Install flooring into the adhesive while still wet. Proper adhesive transfer to the backing should be confirmed periodically by lifting the material.
 - 3.4 For homogeneous vinyl sheet goods or rubber floor covering: with a piece of wood protected by a cloth remove the entrapped air by pressing along the floor covering.
 - 3.5 Roll flooring surface across width and length with manufacturer's recommended roller to break down adhesive ridges and ensure complete removal of entrapped air.
 - 3.6 Complete installation as per flooring manufacturer's instructions.
 - 3.7 The initial grab of ULTRA/BOND G21 is low, so it is sometimes required to apply weights, particularly at the seams, to maintain contact until the adhesive sets (24 hours).
 - 3.8 Promptly clean adhesive smudges from flooring material surface and tools with mineral spirits while adhesive is still wet. **ONCE CURED, ADHESIVE IS VERY DIFFICULT TO REMOVE.**
- #### 4. Expansion and control joints
- 4.1 Provide for expansion and control joints where specified.
 - 4.2 Do not cover any expansion joints with adhesive.
 - 4.3 Cut floor covering on both sides along the edges of expansion joints.
 - 4.4 Insert the specified compressible bead and sealant for expansion and control joints.
- #### 5. Protection
- 5.1 Do not walk on the flooring until 24 hours after the installation. For heavy traffic, do not use before 72 hours after the installation.
 - 5.2 Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

TECHNICAL DATA	
Pot life at 73°F (23°C) 50% relative humidity	100 minutes
Setting time	Ready for traffic in 24 hours and for heavier traffic in 3 days. Note that floor temperature directly affects setting time: the warmer it gets, the faster it sets.
Bond strength	Plywood Concrete Vinyl tears Vinyl tears Rubber tears Rubber tears
Freeze-thaw stability	Stable
Flash point	Part A: >100°C (Pensky Martens) Part B: >100°C (tag closed cup)
Specific gravity (mixture)	1.42
Temperature resistance	Up to 120°C
Maximum tolerance of humidity content into the substrate (calcium carbide test)	2.5 % (by weight)
Cleanability	Before setting, with mineral spirits; After setting, very difficult to clean
Consistency	Buttery
PACKAGING	
1 gal. (3,7 L)	
2 gal. (7,5 L)	
SHELF LIFE	
12 months when stored in original containers at room temperature in a dry heated area.	
COLOR	
Off white (can be supplied in several colors on special request)	
HEALTH AND SAFETY	
Consult the material safety data sheet before using this product.	
TYPICAL TROWELS	COVERAGES
Homogeneous vinyl sheet goods and thin pure vinyl tile	
	
square notch 1/32" x 3/64" x 13/64" (0,8 x 1,2 x 5,2 mm)	29-31 sq. yds./gal. (6,6-7,0 m ² /L)
Rubber (smooth backed)	
	
square notch 1/16" x 1/16" x 1/16" (1,6 x 1,6 x 1,6 mm)	15-18 sq. yds./gal. (3,5-4,0 m ² /L)
Carpet (polypropylene backing)	
	
v-notch 1/8" x 1/8" x 1/8" (3,2 x 3,2 x 3,2 mm)	10-12 sq. yds./gal. (2,2-2,6 m ² /L)
NOTE	
Quantities shown are approximate and given for estimating purposes only. Actual job site coverages may vary according to substrate conditions, type of trowel used and setting practices.	

NOTICE: We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed

instructions or for other than the intended use. 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. Our

liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was, or reasonably should have been, discovered.

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