



MS-210

Luxury Vinyl Tile and Plank Adhesive

DESCRIPTION

MS-210 Luxury Vinyl Tile and Plank Adhesive is a tough-set adhesive designed specifically for the wet-lay or transitional pressure-sensitive installation of interior homogeneous and heterogeneous solid vinyl flooring. With its strong, durable, moisture-resistant and alkali-resistant bond, it is ideal for commercial and institutional applications. It has an excellent open time, develops strength quickly, performs well under rolling loads and resists indentation.

FEATURES AND BENEFITS

- Transitional pressure-sensitive installation method
- Superior bond strength
- High moisture resistance

USES

Use to install vinyl tile, luxury vinyl tile and vinyl plank, and solid vinyl sheet.

RECOMMENDED SUBSTRATES

Exterior-grade plywood, Group 1, CC type; other approved wood underlayments (per flooring manufacturer's recommendations); concrete and properly prepared cement terrazzo; primed cement-based self-leveling underlayments and patching compounds; embossing levelers applied over existing, properly prepared and fully bonded ceramic tile or vinyl composition tile (VCT); and properly prepared and primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419

LIMITATIONS

Do not install over any substrates containing asbestos. For interior installations only. Do not apply over any adhesive residues, including cutback. The moisture vapor emission rate (MVER) must be diminishing over time; do not install when the MVER exceeds 8 lbs. per 1,000 sq. ft. (3,63 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 the concrete slab exceeds 95% (ASTM F2170). Do not use if the pH of the concrete slab is greater than 11. Use only when the substrate temperature is between 65°F and 85°F (18°C and 29°C). Install only in areas recommended by the flooring manufacturer. Building owners should be advised and aware of the flooring manufacturer's guidelines for climate-control settings (temperature and humidity). These conditions must be monitored and kept constant in order to ensure the overall performance and long-term success of the installation. For conditions outside of limitations, please contact your Modern Surface sales representative; additional project warranties may be available.

SURFACE PREPARATION

All substrates must be structurally sound, dry, solid and stable. The 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.

MIXING

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

- Do not combine with other adhesives or thin with any substance.
- Ready to use; no mixing is necessary.

INSTALLATION

Read all installation instructions thoroughly before installation.

1. Select the appropriate notched trowel (see the "Typical Trowel and Approximate Coverage" section).
2. Spread the adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
3. Only apply as much adhesive as can be installed within the working-time guidelines shown in the "Application Conditions" chart.
4. Allow the adhesive to flash per recommendations shown in the "Application Conditions" chart.
5. Install flooring in strict accordance with the flooring manufacturer's written instructions.
6. Roll the flooring with the recommended-weight roller across the width and length of the flooring surface.
7. Promptly clean any adhesive smudges from the flooring material's surface with water while the adhesive is still fresh/wet. Use mineral spirits once dried. Use caution with mineral spirits, which may be harmful to some materials.
8. Clean tools with water while the adhesive is still fresh/wet.
9. Protect from light traffic for 24 hours, and from heavy traffic for 72 hours.

APPLICATION CONDITIONS

Application Characteristics over Porous Substrates

| | Flash Time* | Working Time** |
|----------------------|---|------------------|
| Solid vinyl sheet† | 0 to 15 minutes | 30 to 45 minutes |
| Vinyl tile and plank | 15 to 30 minutes, or until dry to touch | 1 hour |

† Sheet flooring must be installed into wet adhesive in order to facilitate flooring placement.

Application Characteristics over Nonporous Substrates

| | Flash Time* | Working Time** |
|----------------------|---|----------------|
| Vinyl tile and plank | 30 to 60 minutes, or until dry to touch | 1 hour |

* Flash time: The amount of time recommended for the adhesive to remain exposed to the air following application before the installation of floor covering.

** Working time: The maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

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


Radiant heat: Installations over radiant heat may require specialized procedures. Follow the flooring manufacturer's instructions.

PRODUCT CHARACTERISTICS (at 73°F [23°C] and 50% relative humidity)

| | |
|--------------------|--|
| Polymer type | Vinyl acrylic |
| Percent solids | 55% to 65% |
| VOCs | 34 g per L |
| Color | Off white |
| Shelf life | 2 years when stored in original packaging at 73°F (23°C) |
| Storage conditions | 50°F to 90°F (10°C to 32°C) |

Note: 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.

TYPICAL TROWEL AND APPROXIMATE COVERAGE***

| Flooring Type | Recommended Trowel | Coverage |
|-----------------------------|--|---|
| Vinyl sheet, tile and plank |  1/16" x 1/16" x 1/16" (1,5 x 1,5 x 1,5 mm) square-notch trowel | 125 to 185 sq. ft. per U.S. gal. (3,06 to 4,53 m ² per L) |

*** Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to application method, substrate, substrate conditions and actual thickness applied.

