



BERING
FLOORS

INSTALLATION GUIDELINES

15-YEAR COMMERCIAL

POWELL *Plus* with StructurCore™
Resilient Flooring

Installation Environment

Install at 45°F-90°F. No acclimation required. A functioning HVAC system is not required before or during installation. No ongoing temperature-maintenance requirement after installation.

- No acclimation is required.
- A functioning HVAC system is not required before or during installation.
- Jobsite temperature during installation must be between 45°F and 90°F.
- There is no ongoing temperature-maintenance requirement after installation.
- All other applicable substrate preparation, moisture testing, adhesive and installation requirements remain in effect.

Storage & Handling

- No acclimation is required for Powell Plus with StructurCore™.
- Store cartons flat and square and protect material from distortion, damage, contamination, direct heat and excessive exposure to sunlight.
- Do not over-stack cartons or pallets in a manner that may damage or deform the product.

General

- Ensure proper moisture testing of the substrate before installing any moisture-sensitive floor covering.
- Cementitious patching and leveling compounds must meet or exceed Bering Floors' maximum moisture and pH requirements for approved use.
- Gypsum-based patching and/or leveling compounds containing Portland or high-alumina cement must meet or exceed 3,000 psi compressive strength.
- Resilient flooring installation should not begin until other trades are completed sufficiently to avoid dust, debris, spilled paint and construction damage.
- Visually inspect all material before installation. Material installed with visible defects may not qualify for labor-related claims.
- Perform bond testing to establish adhesive compatibility with the substrate.

Substrate Preparation

- All substrates receiving resilient flooring must be dry, clean, smooth and structurally sound.
- Remove dust, solvent, paint, wax, oil, grease, residual adhesive, curing/sealing compounds, alkaline salts, excessive laitance, mold, mildew and other materials that may interfere with adhesive bonding.
- Address asphalt-based cut-back adhesive residue and other existing adhesive using appropriate industry-standard methods.
- Do not use solvent or citrus adhesive removers where residue may remain and interfere with the new adhesive.

Wood Subfloors

- Wood subfloors must be structurally sound and comply with applicable building codes.
- Use APA-rated underlayment panels designed for resilient flooring where required.
- Crawl spaces should be adequately ventilated and protected with an appropriate ground vapor barrier.
- Particleboard, chipboard, flakeboard, OSB, hardboard and similar substrates are not suitable direct-bond surfaces unless properly overlaid with an approved underlayment.
- Do not install over sleeper construction or wood subfloors applied directly over concrete.
- Follow the underlayment manufacturer's installation instructions.

Concrete Subfloor Requirements

- New and existing concrete subfloors should meet the latest applicable guidance of ACI 302 and ASTM F710.
- Concrete slabs must have a minimum compressive strength of 3,000 psi and be clean, flat, dry, smooth and structurally sound.
- Slabs on or below grade must have a sufficient vapor barrier directly below the slab.
- Concrete floors should be flat and smooth within 1/8 inch in 6 feet or 3/16 inch in 10 feet.
- Do not install resilient flooring over expansion joints. Use expansion-joint covers designed for resilient flooring.

Required Moisture Testing

- Concrete floors must be tested in accordance with the latest edition of ASTM F710.

Required Moisture Testing *(continued)*

- Maximum moisture level: ASTM F1869 calcium chloride - 8 lbs.; ASTM F2170 in-situ relative humidity - up to 99% where permitted by the approved Bering Floors adhesive/system.
- Concrete subfloor pH must be between 7 and 10.
- Bering 2600 / Bering C2400 adhesive may not exceed 99% RH.
- The installer is responsible for ensuring required moisture testing has been performed and results are satisfactory before installation.

Radiant Heat Requirements

- Radiant-heated subfloors may be concrete, wood or a combination, provided the system and flooring assembly are suitable for resilient flooring.
- The Powell Plus with StructurCore™ installation environment remains 45°F-90°F; no acclimation or functioning HVAC is required before or during installation.
- The no ongoing temperature-maintenance requirement does not eliminate applicable radiant-system operating limits or adhesive requirements.
- Follow the radiant-system and approved adhesive manufacturers' instructions.

Existing Floor Coverings

- Existing flooring must be a single layer, non-cushioned, fully adhered and smooth, with no evidence of moisture or alkalinity.
- Remove waxes, polishes, grease, grime and oil.
- Repair cuts, cracks, gouges, dents and other irregularities before installation.
- Do not install over rubber-based substrates.
- The installer/flooring contractor is responsible for determining whether an existing floor is suitable to receive new resilient flooring.

Adhesives

- Bering 2600 adhesive is required for Powell Plus with StructurCore™ installations.
- Install Bering 2600 adhesive transitionally, allowing approximately 15-25 minutes of flash time before placing the flooring.
- Apply adhesive using a 1/16" x 1/32" x 1/32" U-notch trowel.
- Use the adhesive appearance as the installation cue: the adhesive ridges should turn milky while the valleys become clear before flooring is placed.
- Follow all other applicable Bering 2600 adhesive requirements, including substrate preparation, moisture/pH limits, working time and rolling requirements.

Bering Tile & Plank Installation

- Install using conventional resilient tile and plank installation techniques. Plank products should have a minimum 6-8 inch seam stagger.
- Unless project requirements state otherwise, center rooms and hallways so borders are not less than half a tile or plank. Work from multiple cartons where appropriate.
- Place cut edges against walls where possible to preserve appearance.
- Score LVT/LVP from the face with a sharp utility knife, bend the product and complete the cut from the back.
- Do not use alcohol-based glues on resilient flooring.
- Roll glued-down plank/tile with the roller specified by the adhesive system throughout the working day to ensure proper bond.
- Do not tape protective coverings directly to the finished flooring surface.

Warranty & Installation Responsibility

POWELL PLUS WITH STRUCTURCORE™ Install at 45°F-90°F. No acclimation required. A functioning HVAC system is not required before or during installation. No ongoing temperature-maintenance requirement after installation.

All installations must otherwise comply with Bering Floors' applicable substrate preparation, moisture testing, adhesive and installation requirements. Installation errors and conditions resulting from failure to follow these instructions may not be covered by the applicable warranty.