

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2026-164
Item to be Scouted	BABA: Welded Vinyl Flooring
Days to be scouted	14
Response Due By	05/13/2026
Description	Welded vinyl flooring refers to a resilient sheet-vinyl flooring system where the seams between sheets are heat-welded using a vinyl welding rod. The result is a continuous, monolithic, watertight surface... the kind you see in hospitals.

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	<p>1-Prepare the Vinyl Compound PVC resins, plasticizers, stabilizers, fillers, and pigments are blended into a uniform compound.</p> <ul style="list-style-type: none"> -Combine PVC resin with plasticizers for flexibility -Add calcium carbonate or other fillers for body and stability -Mix in heat stabilizers, UV inhibitors, and color pigments -Use high-shear mixers to achieve a consistent melt <p>2-Form the Vinyl Sheet The compound is shaped into a continuous sheet using calendering or extrusion.</p> <ul style="list-style-type: none"> -Feed compound into heated calender rolls or an extrusion die -Control sheet thickness (typically 2–3 mm for homogeneous vinyl) -Cool the sheet gradually to prevent internal stresses <p>3-Build Layers (Heterogeneous Only) For multi-layer vinyl, additional layers are laminated onto the base sheet.</p> <ul style="list-style-type: none"> -Apply printed décor film for patterned products -Add fiberglass scrim for dimensional stability -Laminate wear layers (transparent PVC) for durability -Use heated rollers to fuse layers into a single composite <p>4-Emboss the Surface Texture is added to improve slip resistance and aesthetics.</p> <ul style="list-style-type: none"> -Pass sheet through engraved embossing rollers -Create textures such as matte, smooth, or slip-resistant patterns -Synchronize embossing with printed décor (for heterogeneous vinyl) <p>5-Cure and Stabilize the Sheet The sheet is heated and cooled to lock in dimensional stability.</p> <ul style="list-style-type: none"> -Run through curing ovens to complete polymer fusion -Cool under controlled tension to prevent shrinkage -Condition the sheet to stabilize internal stresses <p>6-Apply Surface Coatings Protective coatings improve stain resistance, cleanability, and durability.</p> <ul style="list-style-type: none"> -Apply urethane, PUR, or UV-cured coatings -Add antimicrobial or chemical-resistant top layers if required -Cure coatings with heat or UV light
Provide dimensions / size / tolerances / performance specifications for the item	This would be for a 15' x 15' laundry room. Non-PVC welded flooring to meet MHFA requirements. Please respond with all available options.

List required materials needed to make the product, including materials of product components

1. Primary Polymer System
 These are the core ingredients that form the vinyl matrix:
 - PVC resin (polyvinyl chloride) — the main polymer
 - Plasticizers (e.g., DINP, DIDP, DOTP) — provide flexibility
 - Stabilizers (typically calcium-zinc or organotin) — prevent heat degradation during processing
 - Processing aids — improve melt flow and calendaring behavior
 PVC + plasticizer + stabilizers = the base vinyl compound.

2. Mineral Fillers
 Used to add strength, control cost, and adjust density:
 - Calcium carbonate (limestone) — primary filler
 - Clay or talc (optional) — improves dimensional stability
 - Silica (rare, specialty products)
 Homogeneous vinyl uses more filler; heterogeneous uses less.

3. Pigments & Decorative Materials
 Depending on product type:
 - Homogeneous Sheet Vinyl
 - Color pigments (iron oxides, organic pigments)
 - Chips/granules of colored vinyl for through-body patterns
 - Heterogeneous Sheet Vinyl
 - Printed décor film (high-resolution graphic layer)
 - Transparent wear layer (clear PVC or polyurethane)
 - Backing layer (PVC, felt, or fiberglass)

4. Reinforcement Materials (for Heterogeneous Vinyl)
 These improve dimensional stability and reduce shrinkage:
 - Fiberglass scrim or fleece — the most common reinforcement
 - Polyester felt — used in some commercial products
 - Glass fiber mats — for premium stability

5. Wear Layer Materials
 The wear layer determines durability and weldability:
 - Clear PVC wear layer — standard for weldable flooring
 - Polyurethane (PU) coatings — for stain resistance and reduced maintenance
 - UV-cured topcoats — improve scratch resistance

6. Adhesives & Bonding Layers (Internal)
 Used during lamination of heterogeneous vinyl:
 - Hot-melt PVC adhesive
 - Acrylic adhesive layers
 - Thermoplastic bonding films
 These fuse the backing, print film, and wear layer into a single sheet.

7. Welding Rod Materials
 The welding rod must match the sheet's chemistry:
 - PVC compound identical or compatible with the sheet vinyl
 - Color pigments matched to the flooring
 - Plasticizers and stabilizers (same family as sheet vinyl)
 Rod is extruded into round or triangular profiles.

8. Additives for Performance
 These fine-tune the flooring's behavior:
 - Antimicrobial agents — for healthcare applications
 - Slip-resistant particles (aluminum oxide, quartz) — for safety flooring
 - Conductive carbon or graphite — for ESD/cleanroom vinyl
 - Fire retardants (aluminum trihydrate) — to meet ASTM E648, E662

Are there applicable certification requirements?

No

Are there applicable regulations?

No

Are there any other standards, requirements, etc.?

No

Additional Technical Comments	This is for a three-story 48 Unit Multifamily Apartment over a one-story parking garage. MHFA Project.
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Section 4: Business Information

Estimated potential business volume	Estimated 225 SF.
Estimated target price / unit cost information (if unavailable explain)	Estimated \$900.00
When is it needed by?	July 2027
Describe packaging requirements	<p>Packaged as large rolls, typically 6 ft or 2 m wide and 60–80 ft long, weighing 150–300 lbs.</p> <p>Rolled around a rigid, crush-resistant core (cardboard or PVC) to prevent deformation.</p> <p>Wrapped in heavy plastic or shrink film with sealed ends to protect against moisture, dirt, and abrasion.</p> <p>Edge protection (end caps, collars, or guards) prevents dents that would affect seam welding.</p> <p>Each roll must be clearly labeled with product name, color, lot number, dimensions, and storage/installation guidelines.</p> <p>Shipped on ISPM-15 compliant pallets with cradles or supports, secured using strapping and stretch wrap.</p> <p>Stored in climate-controlled conditions (65–85°F), upright or on cradles, never flat, and acclimated before installation.</p> <p>Packaging practices align with standards such as ASTM F1303, ASTM F1913, ASTM D3951, ASTM D4727, and OSHA labeling expectations.</p>
Where will this item be shipped?	Blaine Minnesota

Additional Comments

Is there other information you would like to include?	
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