



# Acoustical Surfaces, Inc.

**SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS**

123 Columbia Court North • Suite 201 • Chaska, MN 55318

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Email: [sales@acousticalsurfaces.com](mailto:sales@acousticalsurfaces.com)

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**We Identify and S.T.O.P. Your Noise Problem**

## POLY 300

SINGLE COMPONENT SOLVENT-FREE URETHANE ADHESIVE  
FOR WOOD AND RUBBER FLOORING INSTALLATION

### ADVANTAGES

- Trowels easily
- Contains no water or solvents
- High initial grab
- Good elongation – remains flexible
- Low VOC – low odor
- High bond strength
- Water and moisture resistant once dried

### DESCRIPTION

POLY 300 is a ready-to-use high-performance single component solvent-free, low VOC, low-odor moisture-curing urethane waterless adhesive specially formulated for easy and successful rubber flooring installation and “Direct Glue-Down” prefinished or unfinished wood parquet, hardwood flooring, engineered plank flooring, acrylic-impregnated wood and laminated plank flooring. (Refer to the wood flooring manufacturer’s setting instructions, limitations and guidelines).

### USES

For INTERIOR installation of rubber flooring and prefinished or unfinished wood parquet, hardwood flooring engineered plank flooring, acrylic-impregnated wood and laminated plank flooring over any dry, clean, properly prepared substrate underlayment that are recommended and/or guaranteed by the wood-flooring manufacturer. (Refer to the wood flooring manufacturer’s setting instructions, limitations and guidelines for details).

### LIMITATIONS

- **DO NOT USE** for exterior installation.
- **DO NOT USE** when the ambient and/or substrate temperatures are below 10°C (50°F) or above 35°C (95°F).
- **DO NOT USE** this adhesive to install any type of wood flooring that is not recommended by its manufacturer to be “glued-down”.
- **DO NOT INSTALL** rubber or wood flooring directly over concrete slabs in high moisture or big water table areas because of the wicking properties of concrete that may cause adhesion failure or mold growth. **In all cases, the moisture vapor emission of the substrate must not exceed 1.36 kg per 96 m<sup>2</sup> (3 lb per 1000 sq. ft.) per 24 hours when tested with the calcium chloride tester (ASTM F-1869).**
- **DO NOT USE** this adhesive for surface preparation, leveling and patching. When such substrate preparation is required, please contact ASI’s representatives for proper leveling and/or patching product to be used.

### RECOMMENDED SUBSTRATES

- Properly prepared clean, dry fully cured concrete (at least 28 days old), free of moisture, rising moisture and alkaline conditions.
- Cementitious screeds, rendering, leveling coats and mortar beds.
- Exterior Glue Plywood and OSB panels (exterior type marine OSB) that are recommended and/or guaranteed by the wood underlayment manufacturer, the rubber flooring manufacturer or wood-flooring manufacturer. (For more details, refer to the rubber flooring or wood flooring manufacturer’s setting instructions, limitations and guidelines).
- Rubber flooring.



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### TROWEL, GUIDELINE/APPROXIMATE COVERAGE

Parquet; Marquetry; Rubber Solid Plant	Square Notched 1/8" x 1/8" x 1/8"  Square Notched 1/4" x 1/4" x 1/4"	80 ft <sup>2</sup> /gal  40 ft <sup>2</sup> /gal
Engineered Wood; Laminated Wood	'V' Notched 1/4" x 3/16" x 1/2"  'V' Notched 3/16" x 5/32"	45 ft <sup>2</sup> /gal  50 ft <sup>2</sup> /gal
Mosaic Wood  Plywood 4' x 4'	'V' Notched 1/4" x 3/16" x 1/2"  Square Notched 1/4" x 1/4" x 1/4"	45 ft <sup>2</sup> /gal  40 ft <sup>2</sup> /gal

Note: Clean trowel often to prevent adhesive build-up.

### SUBFLOOR PREPARATION

- Concrete substrates must be completely cured (at least 28 days old) dry and free of moisture or rising moisture conditions. **IMPORTANT – Perform a moisture emission test with the calcium chloride tester (ASTM F-1869). In all cases, the moisture vapor emission must not exceed 1.36 kg per 93 m<sup>2</sup> (3 lb. per 1,000 sq. ft.) per 24 hours.**
- Remove all acid, alkali and/or cleaning chemical residues.
- All substrate surfaces must be smooth and flat to a tolerance in plane of .0015 (3/16" in 10'-0" or 1/8" in 6' x 0").
- When subfloor leveling, filling and/or patching is required, use ONLY the appropriate high compressive strength Portland cement based leveling and/or patching product as recommended by Acoustical Surfaces, Inc. representatives. Mechanically roughen concrete substrate surfaces in accordance with the engineer-approved procedure (*Shot-blasting, scarification, grinding, sand or water-blasting, etc.*) The surface texture must be sufficiently profiled to provide adequate bond with the subsequent self-leveling/filling/patching subfloor preparation product layer.
- All substrates must be clean, dry, structurally sound, properly cured, free of dust, dirt, oil, paint, old adhesive, wax, sealers, curing agents and debris that may prevent or reduce adhesion. In general, scouring with 20 grit or #3 1/2 paper will remove most compounds.
- Vacuum-clean the subfloor thoroughly to remove all residual dust and debris.

### MIXING

- POLY 300 is ready-to-use. No mixing is required. Just remove the container-lid and spread the adhesive.

### INSTALLATION INSTRUCTIONS

- Refer to the Rubber-Flooring Manufacturer's and/or the Wood Flooring Manufacturer's Product Instructions and the relevant industry standards as to the requirements and procedures concerning site conditioning, substrate preparation and materials handling, conditioning and installation.
- All rubber floor-covering, wood flooring, adhesive, subfloor preparation products and substrate should be acclimatized and maintained at normal room temperature [ $\pm 23^{\circ}\text{C}$  (73°F)] for a period of at least 24 hours before installation, during installation and 48 hours after.
- Use the appropriate notched trowel/spreader (*See Trowel Guideline Table*) as recommended by the Rubber Floor Covering Manufacturer or Wood Flooring Manufacturer to ensure adequate adhesive contact [*usually+ 95% of the backface of the floor covering*].



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### OPEN TIME

- At room temperature [ $\pm 23^{\circ}\text{C}$  ( $73^{\circ}\text{F}$ )] the Open time of this adhesive may vary between 2 to 3 hours depending upon its amount of exposure to moisture.

### APPLICATION

- Do not spread more adhesive than can be covered with wood or floor covering within 3 hours.
- The wood or rubber floor covering may be installed by following either the "WET LAY METHOD" or "FLASH TIME METHOD" as follows:

#### WET LAY METHOD

- Determine the starting point and snap a chalk line. Attach a straight edge along the line to prevent the wood flooring or rubber floor covering from moving off of the starting line.
- Apply the adhesive with the recommended trowel/spreader and immediately, install the wood flooring or the rubber floor covering into the wet adhesive. (For the rubber covering, roll on immediately after with a 90 pound roller).
- To reduce slippage, secure the first two starter rows with finishing nails or sprig nails.
- Set the remaining wood planks by pressing them firmly into the adhesive. Planks that are not completely flat should be weighted for several hours to ensure adequate contact while the adhesive is drying.
- While using this "wet lay" method, do not walk on top of or work from the top of the flooring that was just installed.
- Working in small sections at a time makes installation easier as it allows reaching across the adhesive to install the wood flooring more conveniently and adequate adhesive transfer without the need of additional weight.

#### FLASH TIME METHOD

- Determine the starting point and snap a chalk line. Attach a straight edge along the line to prevent the wood flooring from moving off of the starting line.
- Apply the adhesive with the recommended trowel and allow the adhesive to flash for  $\pm 30$  minutes prior to applying the wood flooring to the adhesive.
- Start laying the wood flooring from the starting point along the chalk line towards the center of the field.
- Working in small sections at a time will ensure proper adhesive transfer to the back of the wood flooring.
- Provide proper expansion gaps at floor/wall intersections, along bases and curbs and around columns and conduit openings.
- Upon completion of each enclosed area, wedge the wood flooring so that it remains tight while the adhesive dries and cures. Remove and discard the wedges after the adhesive has cured to allow the floor to have room for normal expansion and contraction.



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PHYSICAL PROPERTIES @ 77 ° F (25 ° F) and 50% RH

Viscosity	50,000 – 75,000 cps
Specific Gravity	1.5
Color	Tan
Skin Time, 1/8" thick	1-2 hours
Full Cure, 1/8" thick	24 hours
Flammability, ASTM E-84	25 (Flame Spread Index)
Flash Point, TCC	160 ° F (71 ° C)
Odor	Mild
Application Temperature	50 ° F to 100 ° F (10 ° C to 38 ° C)
V.O.C.'S	Compliant
Peel Adhesion (dry)	
To Plywood	18 piw, Plywood failure
To Concrete	26 piw, Concrete failure
Peel Adhesion (wet)	
To Concrete	18 piw, Concrete failure
To Concrete	26 piw, Concrete failure
Tensile Strength	220 psi
Elongation at Break	150%
Shear Strength to Concrete	
3/4" Plywood	280 psi, Plywood failure
3/4" Oak	280 psi, Concrete failure
5/16" Marquetry	280 psi, Concrete failure

### PROTECTION

*NOTE: Generally room temperature and 50% RH conditions, the adhesive will dry to its ultimate strength in 24 to 48 hours.*

- When using the wet lay method, do not walk on the floor during installation.
- Protect floors from light foot traffic for at least 8 to 12 hours and general traffic for at least 24 hours.
- Wait at least 2 days after installation before finishing an unfinished wood floor.

### CLEAN UP

- As the prefinished wood flooring or rubber floor covering is being installed, immediately wipe off wet adhesive smudges and excess adhesive from the surface with soft cloth and mineral spirit while adhesive is wet.
- Do not allow adhesive to cure on the flooring surface, as cured adhesive is difficult to remove.
- Promptly clean tools and hands with mineral spirit while the adhesive is fresh.

### PROTECTION FROM FREEZING

### SHELF LIFE

12 months when store in its original container and kept at room temperature.



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### HEALTH AND SAFETY

Prolonged or repeated skin exposure may cause skin irritation. Do not swallow or allow eye contact. If skin contact occurs, wash the affected area with soap and flowing water. Seek medical attention if irritation persists. If eye contact occurs, flush with water for 15 minutes and seek medical attention. If adverse respiratory effects occur, move to a fresh air area and seek medical attention. If swallowed do not induce vomiting and seek medical attention. For additional information, refer to Material Safety Data Sheet.

### KEEP OUT OF THE REACH OF CHILDREN

### WARRANTY INFORMATION

DURO disclaims all other warranties, expressed or implied the warranties of merchantability and fitness for a particular purpose. The buyers sole remedy for noncompliance with this warranty shall be for the replacement of the product or refund or the buyer's purchase price. In no case will DURO be liable for direct, consequential, economic or other damages.