

1. PRODUCT NAME

Metropolitan Systems - Complete (MSC) Urethane Wood Flooring Adhesive (3124222)

2. MANUFACTURER

Metropolitan Hardwood Floors
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1-800-851-7056 (USA)
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3. DESCRIPTION

MSC Urethane Wood Flooring Adhesive is a high-performance, one-component, moisture cure urethane adhesive that eliminates hollow spots and delivers powerful bond strength. MSC Urethane is ideal for glue-down installation of all types of engineered wood flooring, acoustic underlayments and all subfloors common to wood flooring installations. MSC Urethane provides subfloor moisture control up to 100% RH and 25lbs. MVER when the Moisture Control installation method is used.

Key Features and Benefits

- Superior ridge retention prevents hollow spots
- Ultra-easy trowelability
- Powerful bond
- Fast curing
- Moisture control up to 100% RH and 25 lbs (11.34 kg) MVER when installed using the Moisture Control Method

Packaging

4 gallon plastic pail (15.13 L)

Coverage

Determine recommended trowel size based on flooring type. Coverage will vary with the absorption of substrate and trowel size. Figures below are presented only as guidelines.

Coverage and Trowel Selection:



Engineered plank 1/2" (12.7 mm) or less and less than 7" (177.8 mm) wide: 3/16" x 1/4" x 1/2" (5.0 mm x 6.4 mm x 12.7 mm) V-notch; 60-70 ft²/gal (5.6-6.5 m²/3.78 L).



Engineered plank thicker than 1/2" (12.7 mm) or 7" (178 mm) or wider: 3/16" x 3/16" x 3/16" (4.8 x 4.8 x 4.8 mm) Square-notch; 35-45 ft²/gal (3.3-4.2 m²/3.78 L).



Moisture Control Method Engineered plank: 1/4" x 1/4" (6.4 x 6.4 mm) V-notch; 30-35 ft²/gal (2.7-3.7 m²/3.78 L).



For use with Acoustic Underlayment: 1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm) Square-notch; 85-95 ft²/gal (7.9-8.8 m²/3.78L).

Suitable Substrates

All substrates that meet NWFA standards:

- Concrete
- Plywood
- OSB
- Terrazzo
- Ceramic

Substrate Preparation: Prepare substrate according to NWFA installation guidelines. The subfloor must be structurally sound, cured, flat and dry and free of contaminants or other residue that could interfere with a good bond. For application of MSC Urethane over ceramic tiles, it is necessary to grind the tile surfaces and vacuum thoroughly. Maximum acceptable floor variation is 3/16" (5.0 mm) in a 10 foot radius (4.7 mm in 3 m).

Moisture tests must be performed on all concrete subfloors. Moisture testing must be performed in accordance to ASTM F-1869 – Calcium Chloride Test, or ASTM F-2170 – in situ RH Probe Test. Always refer to the wood flooring manufacturer for subfloor moisture requirements and testing procedures before proceeding with the installation.

Concrete Slab: Must be installed per ASTM F710 guidelines and cured at least 28 days. pH must be between 7-11. Do not use in areas subject to hydrostatic pressure.

Terrazzo: Surface should be sanded so that all polishes and glaze compounds are stripped. After sanding, thoroughly vacuum to remove all loose particles. Then, clean the substrate with mineral spirits and allow to dry before installing the wood flooring.

APA approved Plywood and OSB Type Subfloors: Panels must be securely fastened. Eliminate any movement with screws. Sand all high joints. Fill and patch low areas. Refer to flooring manufacturer for guidelines of moisture content difference between properly acclimated wood flooring and subfloor materials.

Radiant Heated Subfloors: Check flooring manufacture's specifications to determine if the flooring is approved over heated subfloors. MSC Urethane is approved for use on hydronic system radiant heated subfloors, provided the system is fully embedded in concrete. Lightweight toppings must be primed first. Turn off the heat 48 hours prior to installation and leave the heat off until 48 hours after completion.

Storage

Store at 40°-95°F (4.4°-35°C) in a cool, dry location. Protect adhesive from freezing. Refer to the Technical Data section of this PDS, for more information.

Shelf Life

Maximum of 1 year from date of manufacture in unopened container.

Limitations

- For interior installations only.
- Do not install over adhesive residue including cutback.
- Do not install when ambient temperature is not between 60°F & 95°F (15°C & 35°C).
- Do not install when ambient relative humidity is above 65%.
- It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.

Cautions

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the product(s) under normal environmental and working conditions. Because each project is different, Metropolitan Hardwood Floors cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Physical Properties

Metropolitan Systems - Complete Urethane Universal Flooring Adhesive	
Description	
VOC Content	<100 grams/Liter
Consistency	Creamy liquid
Trowelability	Smooth
Shelf Life	One year in unopened container
Storage	40°-95°F (4.4°-35°C) in a cool, dry location
Application Temperature	65°-95°F (18°-35°C)
Traffic Restrictions	Foot traffic after 8 hours; heavy traffic after 24 hours
Open Time	Up to 45 minutes, depending on ambient conditions
Freeze/Thaw Stability	Store above 40°F (4.4°C) in a cool, dry location
Acoustical Data	IIC - 69 dB STC - 66 dB IIC - 52 (No drop ceiling)

5. INSTALLATION INSTRUCTIONS

Review the Substrate Preparation instructions in this Product Data Sheet before beginning installation.

Glue Down Only Method

- Reference the trowel chart in this Product Data Sheet and select the correct trowel for your application in the Glue Down Only Method section.
- Do not spread more adhesive than can be covered within 30-45 minutes.
- Adhesive working time and open time vary depending on temperature, humidity, and substrate.
- Good transfer of the adhesive to the flooring is critical. Coverage should be at least 90%. Pull back a newly installed board periodically and inspect for proper coverage.
- Trowels will wear down over time and must be changed regularly to achieve correct coverage.

Moisture Control Method

- Reference the trowel chart in this Product Data Sheet and select the correct trowel for Moisture Control Method.

- Trowel the adhesive parallel to wood flooring in 2'-3' (.6-.9 m) sections and place wood immediately into wet adhesive. Spread adhesive beyond where the last row of flooring stops to ensure there are no voids between stopping and starting points. 100% adhesive coverage of subfloor is required for moisture protection.
- Repeat step 2 to complete floor installation. Trowels will wear down over time and must be changed regularly to achieve correct coverage.

Clean-up

Remove the adhesive from the wood floor surface as soon as possible before the adhesive dries. Use a soft cloth and mineral spirits carefully to not harm the finish. Clean equipment and tools with mineral spirits while the adhesive is still wet. CAUTION: Mineral Spirits are flammable. Read and follow all precautions on container label.

6. AVAILABILITY

Metropolitan Hardwood Floors installation products (Metropolitan Systems - Complete) are available nationwide. To locate Metro Systems in your area, please visit us at; www.metrofloors.com

7. LIMITED WARRANTY

This product is sold subject to a Limited Warranty and related terms of use provided by Metropolitan Hardwood Floors (US). To the extent permitted by law, Metropolitan disclaims any implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product. For Limited Warranty details or to view the SDS with information regarding health, safety and environmental requirements, visit metrofloors.com

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature
To acquire technical and safety literature, please visit our website at metrofloors.com

10. FILING SYSTEM

Division 9



To learn more, visit: metrofloors.com

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