

APPROVED
FLOORING
TYPES

- Engineered and solid hardwood • Bamboo • Dry-back parquet
- Cork flooring • Cork underlayment • Cork-backed hard surface
- Acrylic impregnated plank • Crumb Rubber Flooring/Underlayment •

DESCRIPTION

Pro Series MS+ keeps you firmly grounded with both its price and performance. It was created to offer an alternative to traditional urethane-based adhesives. With its early grab, fast-curing formula and tenacious bond, Pro Series MS+ reduces project time and labor accompanying most wood flooring installations.

APPROVED
SUBSTRATES &
SURFACES

- APA underlayment grade plywood and OSB
- Association grade particleboard
- Cement backer board
- Cementitious and anhydrite screeds
- Concrete and radiant heated subfloors that do not exceed 82°F (27°C)
- Existing well-bonded non-cushion-backed vinyl, tile and sheet flooring
- Fully secured cork underlayments
- Ensure concrete is primed and moisture tested
- Terrazzo (properly prepared with all waxes and surface finishes removed)
- Well-bonded residue from cutback adhesives

SUBSTRATE
TESTING

RH - 90% [ASTM F2170] when using moisture / sound control trowel

pH - No testing required (5-14)

MVER - 10 lbs [ASTM F1869] when using moisture / sound control trowel

SUBSTRATE &
SURFACE
PREPARATION

Follow flooring manufacturer's guidelines for allowable levels of moisture. Substrate must be prepared per ASTM F710 standards including, but not limited to the following:

- Concrete floors must be dry, clean, smooth and structurally sound. They shall be free of any foreign materials that might prevent adhesive bond, including dust, dirt, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, incompatible sealers, fire-retardant chemicals, fungicides, release agents, alkaline salts, excessive carbonation, laitance, mold, mildew, and curing, sealing, hardening or parting compounds.
- Fill all surface cracks, grooves, depressions, control joints and non-moving joints with moisture-resistant patching and self-leveling compounds, allow to fully cure and correct high spots before applying adhesive.
- The substrate, adhesive and flooring must be acclimated in an enclosed building with the HVAC operational between 60-80°F (15-26°C), and between 30-50% relative humidity, for at least 72 hours before, during and after the installation.
- When installing over radiant heated subfloors, turn the heat off for 24 hours before, during and after installation. Failure to turn the heat off may result in shortened working time of the adhesive. When turning radiant heat back on, raise it incrementally, not to exceed a change of more than 5 degrees per hour to a maximum of 85°.
- Wood underlayments must have a moisture content below 12% using a Tramex or Delmhorst moisture meter.

PRECAUTIONARY NOTES:

- For installation instructions or additional technical support, email techserv@metrofloors.com
- When installing thin-gauge wood (solid or engineered), irregular substrates may telegraph through as adhesive pulls wood down during curing stages. Therefore, substrates must be properly leveled (see ASTM F710) to prevent telegraphing.
- Concrete must be placed in strict accordance with applicable standards and specifications. An intact moisture vapor retarder must be present below the concrete (see ASTM E1745), must be fully cured (at least 45 days) and without hydrostatic pressure.
- Flooring must be acclimated per manufacturer's guidelines.

See next page for Application Instructions and Required Tools and Coverage

APPLICATION INSTRUCTIONS

Follow wood flooring manufacturer’s guidelines for layout, design and any special precautions for installation.



1. Spread adhesive using required tools (see tool charts on pages 2 and 3).
 - Not all tools offer moisture protection.
2. Install flooring immediately after adhesive is spread.
 - Working time is approximately 45 min under acceptable temperature and humidity conditions.
 - Wood may slip and move at first so be sure to secure the initial row with approved blue tape to limit movement and hold patterns. Occasionally lift a piece of wood to ensure adhesive is achieving proper transfer. If proper transfer is not achieved, remove dried adhesive and apply more using recommended tool. The use of approved blue tape to temporarily hold the edges together may be necessary until installation is complete.
 - When installing near a solid object or wall, use wedges to ensure ample room is left for expansion (see flooring manufacturer’s recommended expansion guidelines). Installing wood too tight against a stationary object will not allow room for normal wood expansion, which may cause a failure. Remove wedges after initial setting of adhesive (approximately 2 hours) to allow for normal expansion of wood. Failure to remove wedges can cause the wood flooring to buckle and pop off the substrate.
3. Roll and cross roll floor with a 75-100 lbs (34-45 kg) roller within 1 hour of installation and again within 2 hours to ensure proper transfer of adhesive.

PRECAUTIONARY NOTES:

- For installation instructions on wood over 5” wide or 6’ long, email Metropolitan Technical at techserv@metrofloors.com.
- When installing unfinished wood flooring, wait a minimum of 72 hours before sanding.
- Thin-gauge solid and engineered wood and exotic species are very sensitive to job site conditions.
- Reseal lid when not in use to protect product.

REQUIRED TOOLS AND COVERAGE




*Trowel dimensions are width X depth X spacing. Coverage is approximate and may vary depending on porosity of substrate and the angle at which the trowel is held.

For Moisture Barrier and Sound Control Application			
Flooring Type	Tool* (images not to scale)		Estimated Coverage
Planks greater than 6’ long and 5” wide	1/2" x 15/32" (12.7mm x 11.9mm) V Notch		Up to 20 sf/gal
Planks less than 6’ long and 5” wide	1/4" x 1/4" (6.35mm x 6.35mm) V Notch		25-30 sf/gal

See next page for continued Required Tools and Coverage and Cleaning

REQUIRED TOOLS AND COVERAGE

*Trowel dimensions are width X depth X spacing. Coverage is approximate and may vary depending on porosity of substrate and the angle at which the trowel is held.

For Bond Only			
Flooring Type	Tool* (images not to scale)		Estimated Coverage
Dry-back parquet, cork flooring, cork underlayment	1/8" x 1/8" x 1/8" (3.2mm x 3.2mm x 3.2mm) Sq Notch		60-70 sf/gal
Engineered and solid hardwood, bamboo, cork-backed hard surface, acrylic impregnated plank	3/16" x 1/4" x 5/16" (4.8mm x 6.4mm x 7.9mm) V Notch		Up to 50 sf/gal
Crumb Rubber Flooring/Underlayment	1/16" x 1/16" x 1/16" (1.6mm x 1.6mm x 1.6mm) Sq Notch		150-180 sf/gal

It is the sole responsibility of the contractor/installer to determine the proper porosity of the subfloor, apply the correct amount of adhesive for the job conditions and ensure that all instructions, procedures and practices are strictly adhered to.

CLEANING INSTRUCTIONS

While product is still wet: use a damp cloth and water to remove.

While product is still soft: use approved adhesive remover / stripper, denatured alcohol or mineral spirits, always check compatibility in an inconspicuous area first.

See next page for continued Product Characteristics

PRODUCT CHARACTERISTICS

Product Classification	Modified Silane (isocyanate free)
Base Chemistry	STPE polymer-based (Hybrid Propel®)
Curing Method	Moisture cure
Appearance	Off white
Consistency	Smooth, medium viscosity liquid
Application	Easy troweling
Flammability	Non-flammable
Freeze/Thaw	Stable to 10°F (-12°C)
Shelf Life	1 year
Moisture Control*	Protects flooring from substrate moisture up to 90% RH
RH*	90%
pH	No testing required (5-14)
MVER*	10 lbs
Open Time	0 min
Dry Time	N/A
Working Time	45 min
Cure Time	12 hrs
Pot Life	N/A
Light Traffic	6 hrs
Heavy Traffic	6 hrs
Heavy Rolling Loads	N/A
Solvents	None
Isocyanates	None
VOC (g/L) - SCAQMD Rule#1168	0.1
Potential LEED Contributions	Can contribute as a low emitting material
Certifications	FloorScore (listed on mindful MATERIALS)
IIC** (Delta)	66
STC** (Delta)	61 Delta IIC (ΔIIC) 21

MOISTURE

TIME

TRAFFIC

SUSTAINABILITY

ACOUSTICS

STORAGE

CAUTION

WARRANTY INFORMATION

*When using moisture / sound control trowel.

**IIC (delta) and STC (delta) ranges are flooring assembly specific based on third party testing and verification in a controlled environment. For any questions or further information, please contact Taylor Technical at (800) 868-4583, Ext: 2221.

This product should be stored at temperatures between 50-90°F (15-32° C). While this product is freeze-thaw stable, it is necessary to protect it from freezing. Freeze/thaw stable to 10°F (-12°C).

DO NOT take internally. If swallowed, DO NOT induce vomiting. Call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

For warranty information, email Technical Services at techserv@metrofloors.com, visit us on the web at www.metrofloors.com. Flooring manufacturer's and Metropolitan's written pre-installation and installation instructions must be strictly followed or the Metropolitan warranty will be void