



CHAPCO'S CHAMPION™ Urethane Wood Flooring Adhesive

Specialty Construction Brands, Inc.

1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.
Office: (800) 621-0220
Fax: (800) 942-9876
www.chapco-adhesive.com

Product Description:

CHAPCO'S CHAMPION™ is a one-part moisture cure urethane adhesive for installing wood floors. Its unique product formulation provides excellent bond strength along with extraordinary elongation and elasticity to form a durable, yet resilient bond that remains flexible as the floor expands and contracts.

Easy to trowel and very low odor, CHAPCO'S CHAMPION is installer friendly and high performance. Outstanding green strength prevents boards from slipping in wet adhesive and extended open times minimize bond failures for both wet-lay or dry installation methods. Trowel ridges hold their form and resist slumping to effectively reduce hollow spots and bridge gaps between the wood floor and substrate, helping to ensure a flawless installation.

CHAPCO'S CHAMPION is non-flammable, and is VOC Compliant with SCAQMD Rule 1168 and BAQMD Rule 0851.

Product Features and Benefits:

- Moisture Cure, Contains No Water
- For All Wood Types Recommended For Glue-Down Applications
- Remains Flexible With Expanding/Contracting Wood
- Easy To Trowel
- Excellent Green Strength
- Low Odor
- Extended Open Time
- Freeze/Thaw Stable
- High Solids Content
- Non-flammable
- Low VOC's
- Waterproof, Once Cured

Flooring Types:

CHAPCO'S CHAMPION may be used to adhere to hardwood flooring that is recommended by the hardwood flooring manufacturer for glue-down applications. Acceptable wood flooring includes:

- Engineered wood
- Acrylic impregnated
- Solid plank-flat milled
- Shorts
- Bamboo
- Cork
- Parquet
- Other wood flooring recommended by the manufacturer for glue down applications

This adhesive can also be used to install plywood and ceramic tile for light commercial and/or residential applications.

Handling and Storage:

Seal a partially used pail of CHAPCO'S CHAMPION by placing a plastic bag over unused adhesive, working out any air pockets. Scrape sides of pail and reseal with lid. Store at temperatures between 50° and 90° F. To reopen, remove lid and discard plastic and cured material.

Suitable Substrates:

All substrates must be clean, dry, structurally sound, properly cured and free of dirt, oil, paint, old adhesive, wax, sealers, curing agents and all other surface contaminants. When properly prepared, suitable substrates include:

- Fully cured, dry concrete*
- Plywood (APA Grade Trademarked Exposure I)
- Particle or underlayment grade chip board
- Well-bonded vinyl and ceramic tile
- Cement backer board
- Dry, above grade gypsum patch/underlayments
- Cement patch/underlayments**
- Radiant heat flooring
- Terrazzo
- All other properly prepared substrates common to hardwood flooring installations

* All concrete applications are susceptible to moisture and should be tested for moisture prior to installation in several locations within the installation area. Follow the wood manufacturer's recommendation for acceptable moisture content of concrete substrates for wood flooring. Below grade applications are limited to manufacturer's recommendations for approved wood flooring. Conditions for below grade applications must meet a vapor emission rate ≤ 3 lbs/1000 square feet per 24 hours based on the Calcium Chloride Test. If concrete conditions exceed the allowable moisture content, please consult with a CHAPCO technical advisor. Maximum acceptable floor variation is 3/16" in a 10 ft radius (4.5mm in 3m).

** Surfaces requiring patching or leveling must be done using a Portland cement based material such as CHAPCO Smooth Finish™, CHAPCO Patch™ or CHAPCO Self Leveling Underlayment™.

CHEMICAL AND PHYSICAL PROPERTIES	
Percentage of Water	0.0%
Volume of Water (5 gallon pail)	0.0
Water Vapor Permeance (ASTM E-96)	.40
Water Vapor Permeability	6.0×10^{-4}
Percentage of Adhesive Transfer:	
- Engineered Hardwood Flooring	>80%
- Solid Hardwood Flooring	>95%
Used to Glue Down Solid Wood Flooring	Yes
Elongation	>350%
Open Time	3.5 hours in standard conditions
Tack Time	1 hour (last hour of open time)
Application Temperature	40°-120°
Service Temperature	-40°F - 120°F
Flash Point	147° F
Viscosity (RVF, Spindle 7 Speed 20)	80,000 cps
VOC Compliant	Less than 95g per liter
Odor	Mild
Color	Light Yellow
Weight	12.7 lbs/gallon
Cure Time*	8 - 10 hours

* Higher humidities combined with higher temperatures will yield a faster cure. Light foot traffic is acceptable after 8-10 hours under normal conditions; regular traffic after 24 hours.

Shelf life:

One year from date of manufacture, in unopened container.

Application Instructions:

Begin installation with a starter row that is secured to the subfloor to prevent the floor from moving during installation. Ensure the starter row is firmly in place by wedging or face nailing. Once initial rows are secure, apply the adhesive to the substrate using the recommended trowel, using either the "wet-lay" or "walk-on-work" method of installation. For either method, to ensure proper coverage on floors that are not flat: roll, tack or apply weight to the wood surface. Rolling is recommended for all installations.

Wet-Lay Method: Begin laying the wood flooring immediately after spreading the adhesive with the recommended trowel. Secure the first two starter rows with finishing or sprig nails to reduce the risk of floor slippage. Remaining flooring should be placed securely into wet adhesive. Do not work from the top of the wood flooring that has just been installed.

Dry or Walk-On-Work Method: Enables you to work from the top of the wood flooring that you recently installed. Apply adhesive to substrate with recommended trowel and allow it to develop tack. Firmly place flooring into "tacky" adhesive. Tip: To maximize productivity, trowel out larger sections of the floor with adhesive, being careful to consider open time (see chart below).

CHAPCO'S CHAMPION™ - Open time, hours			
Temperature	Relative Humidity		
	20%	50%	80%
50° F	3.5	3.5	3.5
70° F	3.5	3.5	2.5
90° F	2.0	1.5	1.0
100° F	1.5	1.0	0.25

Trowel Size & Coverage Recommendations:



Parquet 1/8" x 1/8" Sq. Notch
Approximately 70-80 Sq. Feet/Gallon



3/5 Ply Engineered Plank
3/16" x 5/32" V- Notch
Approximately 45-50 Sq. Feet/Gallon



Flat Milled Solid Plank
1/4" x 1/4" Sq. Notch
Approximately 35-40 Sq. Feet/Gallon

NOTE: Improper trowel notch size is the most common cause of installation failure. Porosity and roughness of subfloor as well as type and texture of backing must be taken into account in selecting trowel notch size.

Plywood Over Concrete: Using a circular saw, score the backside of 4' x 4' sheets of 3/4" exterior grade plywood every 8" to 10" by cutting one half the thickness of the plywood. This reduces plywood tension and helps prevent warping or curling. Using a 1/4" by 1/4" square-notch trowel, apply adhesive to substrate and set plywood to wet adhesive. Add weight, as necessary, to ensure the plywood maintains full contact to the floor as the adhesive cures. Allow adhesive to fully cure before installing wood floors.

Clean up:

As you work, immediately clean up any adhesive from pre-finished flooring with a soft cloth and mineral spirits or denatured alcohol, being careful not to harm floor's finish. Then dry buff with paper towel. Clean tools and equipment immediately with mineral spirits before material cures. Do not allow adhesive to cure on flooring surface, tools, or equipment. Cured adhesive will be difficult to remove.

Limitations:

- Slab temperature should be between 50° F and 100° F during installation.
- Do not use on wet, dusty, contaminated or friable substrates.
- Do not use over substrates or slabs treated with sealers or curing compounds.
- Do not use in areas subject to hydrostatic pressure.
- Do not use over perimeter bonded flooring material.
- Below grade applications are limited to manufacturer's recommendations for approved wood flooring. Conditions for below grade applications must meet a vapor emission rate <= 3lbs/1000 square feet per 24 hours based on the Calcium Chloride Test. If concrete conditions exceed the allowable moisture content, please consult with a CHAPCO technical advisor.
- Do not install solid wood flooring over cutback residue or over VCT/vinyl.
- Refer to wood flooring manufacturer's recommendation for proper expansion relief around perimeter or throughout installation.
- Do not use with vinyl backed cork flooring.
- Follow solid hardwood flooring installation recommendations for bamboo installations.
- Will not prevent moisture-related damage to wood flooring installations.
- Do not use as a leveling material.
- Use over gypsum based patch/underlayments is limited to dry, above grade installations where gypsum has dried, and is free from dust or powder.

Limited Warranty:

Specialty Construction Brands, Inc. (SCB) offers a limited warranty on this product when installed in accordance with SCB's printed specifications. Ask your sales associate or visit www.chapco-adhesive.com to obtain a copy of the limited warranty.

Technical Assistance:

Please call (800) 621-0220 and request a CHAPCO technical support specialist.



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