

# Dyna-Stix® WDU

XL Brands®



## HIGH MOISTURE URETHANE WOOD ADHESIVE

### NON-SLUMPING FORMULA • SUPERIOR STRENGTH

**Dyna-Stix WDU** is a low-VOC, one-component, moisture-cured urethane adhesive (designed for use on high moisture slabs) for the installation of multi-ply engineered wood, high-density fiber board core wood and acrylic impregnated wood plank, as well as finished and unfinished solid wood flooring (approved in writing by the wood flooring manufacturer for glue down installations), parquet and bamboo over properly prepared concrete substrates. Follow NWFA guidelines when installing solid wood flooring directly to concrete substrates. Dyna-Stix WDU is for use over **bare concrete substrates only**. Dyna-Stix WDU's superior strength and elasticity gives quieter, cushioned floor installations. Designed for easy trowel-on, non-slump application.

#### SUBSTRATE CONDITIONS

- Use on bare concrete substrates on or above grade with up to 90% RH (per current ASTM F2170), and pH of 8.0–10.0.

#### USE WITH

Engineered plank and strip  
Acrylic impregnated plank and strip  
Finished & unfinished solid wood  
Parquet  
Bamboo

#### CERTIFICATIONS

- LEED Credits: EQ 4.1, and EQ 4.3

#### LIMITATIONS

- Not for use with foam-backed parquet
- Do not install over any existing resilient flooring.
- Shelf life 12 months from date of manufacture, in unopened container. (store under ambient conditions in a dry area).

#### BEFORE YOU BEGIN:

Important: Proper substrate preparations are essential. Moisture testing must be performed and documented before installation begins. Read XL Brands Technical Bulletin titled Substrate Preparation for complete instructions before beginning installation. This document may be found at [www.xlbrands.com/technical-data/technical-bulletins/substrate-preparations](http://www.xlbrands.com/technical-data/technical-bulletins/substrate-preparations). If you have questions, contact XL Brands Technical Department at 706-508-5907 Mon-Fri, 8:00am - 5:00pm EST before you begin.

• No moisture or pH testing required when installing engineered plank on bare concrete substrates above or on-grade. Substrate must be visibly dry with no wetness or standing water. ONLY multi-ply plywood core or Hevea (Rubberwood) core flooring qualify under this category.

• For above or on-grade installations of solid wood, bamboo plank, high-density fiber board core wood and below-grade installations of multi-ply engineered wood, Dyna-Stix WDU may be used on bare concrete slabs with Relative Humidity (RH) readings up to 90% per the latest version of ASTM F2170 and pH between 8.0- 10.0.

#### Substrate Preparation:

1. For use on concrete substrates at least 60 days old constructed in accordance with ASTM E1745. Do not use this adhesive on concrete slabs with hydrostatic pressure, water intrusion or where visible signs of moisture are present.
2. Substrates should be structurally sound, well attached, clean, dry and free of existing adhesives, grease, wax, paint, oil, curing or sealing compounds, or any other material that will affect adhesion. Do not use on chemically cleaned substrates. The substrate should be flat within 1/8" over an 8-foot span. Level substrate and fill all cracks, holes and low spots with a polymermodified Portland cement patch or leveling compound. Note: "Hollow spots" are a phenomenon that can occur when wood flooring is installed over an irregular substrate and are an installation issue, NOT an adhesive issue.
3. Burnished or steel-troweled concrete substrates must be inspected for porosity by placing a few drops of water on the surface. If the water is not absorbed within 3 minutes, the substrate should be considered non-porous. Mechanically abrade the surface until porosity is achieved.
4. The installation site should be acclimated with HVAC in operation. The floor and room temperature, as well as flooring materials and adhesive, should be maintained at 65°–85° F and the humidity between 40%-65% for 72 hours prior to, during, and after the testing and installation.

#### Installation:

1. After referring to the wood manufacturer's layout instructions for expansion space requirements, spread adhesive in a run that is approximately 24" wide or comfortable for your reach. Wear rubber gloves if skin contact may occur. Begin installing wood flooring when adhesive has been spread over a sufficient area. Never spread more adhesive than you can install in 60 minutes. It is recommended the adhesive be applied by trowel in one direction perpendicular to the wood direction.
2. Working time can be up to 1 hour or longer under prescribed installation temperature and humidity.
3. Pick up boards periodically during the installation process to insure proper adhesive transfer. Transfer requirement is 100% for all flooring. Inadequate transfer will void any warranties.
4. After the flooring is placed, roll the entire installation with a 100 lbs. smooth roller.
5. Clean up with a clean cloth dampened with mineral spirits before the adhesive cures.
6. Allow the adhesive to cure for 24 hours before allowing foot traffic. Wait 48 hours before moving heavy furniture.

**Note:** Wood is a natural product and as such will grow and shrink if not kept in an acclimated environment. XL Brands cannot be held responsible for this natural occurrence.

#### Product Limitations and Application Directives:

The adhesive must not be used on wet, frozen, friable or contaminated surfaces. Do not mix this adhesive or add water to it in the pail.

**Working Time:** Approximately 60 minutes at 70° F and 45% RH

**Cure Time:** Under ambient conditions of around 70° F and 45% RH, allow the adhesive to set for 24 hours before allowing normal traffic.

#### DISCLAIMER:

Disclaimer: Users should determine the suitability of this information or product for their own particular purpose or application. Manufacturer is not responsible for the misuse of this product. This Technical Data sheet and the information conveyed herein supersede all previous versions. XL Brands and Dyna-Stix are registered trademarks of XL Brands, LLC.

#### FLOORCOVERING

Approved wood flooring, Finger block parquet >1/2" thick  
Finger block parquet <1/2" thick

#### TROWEL RECOMMENDATION

1/4" x 1/4" Saw tooth trowel  
3/16" x 5/32" Saw tooth trowel

#### COVERAGE

30-35 square feet per gallon  
50-55 square feet per gallon

**IMPORTANT:** To insure proper coverage, ridges depth and spacing; a new trowel must be used every 500 square feet. Only the above specified trowels and application methods are to be used with this adhesive; otherwise, the product performance warranties and liabilities will be made void.

1/4" x 1/4"

3/16" x 5/32"

198 Nexus Drive | Dalton, GA 30721 | tel: 800.367.4583 | fax: 706.272.5801