

*This specification is one of a series based on installation systems we have tailored to meet our needs and rigid performance requirements and have used over the past five years. This information is designed to assist Architects in specifications where timber flooring is required.*

*As a solid timber and timber veneer flooring supply and installation company we can be contacted re the **supply of any specified product**. And, we would appreciate the opportunity of **quoting for your timber flooring work** NZ wide.*

## **SOLID T&G OVER CONCRETE SUBFLOOR**

### **1. PRODUCTS**

#### **1.1 CONCRETE SEALER**

*Selleys* "VBS" 2 pot epoxy vapor barrier system.

#### **1.2 ADHESIVE**

*Selleys* Direct Stick adhesive

#### **1.3 SOLID T&G FLOORING TIMBER**

Preferably "end matched" and kiln dried to a moisture content to match the proposed finished installation environment, plastic wrapped and stored flat & inside until installation start.

#### **1.4 POLYURETHANE**

*Uroxsys* MCVU non-yellowing moisture cured polyurethane.

### **2. INSTALLATION**

#### **2.1 PRIOR TO STARTING ANY WORK**

Start installation only when the building is enclosed, all "wet" trades have finished, any heating or air-conditioning systems are operating.

#### **2.2 SUBFLOOR**

Ensure the subfloor is clean & dry and level to the BRANZ Specification of maximum 5mm over a 3 meter straight edge in any direction.

#### **2.3 SUBFLOOR PREPARATION**

Diamond grind the entire floor area to remove surface layer, high spots and construction debris to ensure the best possible key to the slab.

#### **2.4 MOISTURE BARRIER**

Vacuum clean the diamond ground slab and apply **Selleys** VBS vapor barrier to the manufacturers specification, restrict traffic & allow 6 – 8 hours to dry.

#### **2.5 LEVELLING**

Fill any low spots with a proprietary leveling compound and primer over the VBS following the manufacturers specifications. We use and recommend the K15 system with Ardon 25 and Ardex 82 2-pot primer applied over the VBS. The primer is applied before leveling, to ensure a strong bond between the VBS & leveling compound. Note: Levelling compound, if applied underneath the VBS vapor barrier may be weakened by the presence of trapped moisture in the concrete slab. Follow manufacturers instructions.

#### **2.6 SOLID T&G MOISTURE CONTENT**

Check the moisture content of the timber flooring and ensure it is at the desired level for the installation environment.

#### **2.7 T&G INSTALLATION**

Trowel **Selleys** Direct Stick adhesive on to the slab using the recommended trowel and manufacturers specifications. Lay the T&G directly into the adhesive "staggering" the end joins in a random fashion. Cramp and fix with masonry nails as needed.

#### **2.8 EXPANSION SPACES**

Leave expansion spaces to the timber supplier's specifications at all fixed objects, walls and flooring transitions/junctions.

#### **2.9 ACCLIMATISATION**

After installation allow flooring to acclimatise to the environment for at least 2 weeks with any air conditioning or heating running.

### **3. FINISHING**

#### **3.1 SANDING & COATING**

Sand the surface flat, trowel fill the entire floor to fill all gaps and fine sand. Apply 2 coats of **Uroxsys** MCUV Gloss non yellowing moisture cured polyurethane and 1 coat of **Uroxsys** MCUV Low Sheen (Matt or Satin finish) non yellowing moisture cured polyurethane to the manufactures specifications and spread rates.

#### **3.2 PROTECTION**

After final coat restrict all traffic for 48 hours then allow only light, clean traffic for 7 days to allow polyurethane to fully harden. Once the polyurethane has fully hardened it may be covered by corrugated cardboard to protect it from trade damage (vacuum carefully first). Avoid covering within first 7 days and avoid covering with plastic at any stage.