

# Ultrathane

## Packaging



## Mixing



## Application



## Uses



## Substrates

Structural timber  
Concrete

## One-pack flexible moisture curing polyurethane adhesive

### Description

A one-pack, solvent-free, polyurethane adhesive of medium viscosity that cures on exposure to atmospheric moisture to form a durable flexible adhesive.

### Uses

A one-part moisture cure polyurethane adhesive for bonding timber flooring and parquetry to either concrete, **Acoustiflor** or structural timber floors, new or existing.

### Features

- No mixing required
- Easy application - medium viscosity with good hold-up qualities
- Low odour
- Excellent acoustic properties
- Excellent adhesion to a variety of substrates
- Water resistant

### Performance Data

**Tensile Strength** (ASTM 412) 2.5MPa  
**Elongation at Break** (ASTM 412) 150%  
**Tack Free Time** 90-150 minutes  
**Rate of Cure** (approx.) 3mm in 24 hours

### Coverage

(Approximate)

Sausage covers 0.8m<sup>2</sup>  
 10 litres covers 10-12m<sup>2</sup>

### Specification

The timber flooring adhesive will be a flexible moisture cure one-pack solvent free polyurethane with a minimum tensile strength of 1.5MPa such as **Ultrathane** manufactured by **Construction Chemicals** and shall be applied in accordance with the manufacturer's application instructions.

### Surface Preparation

Substrates must be structurally sound, clean, dry and free from oil, grease, laitance dust and all other contaminates. Concrete floors must be 25MPa or greater and have a moisture content below 5.5% as per ASDR99463 Sept. 1999. Mechanically abrade/dustless shot blast contaminated floor. Apply **Epecrete** (moisture/

vapour barrier/primer) and check that the surface moisture is below 5.5% before laying timber. Allow **Epecrete** 24 hours at 23°C @ 50% relative humidity to dry.

### Application

Apply in temperatures between 5-30°C and relative humidity must be greater than 40%, using a 4mm V notch in a well ventilated area using protective clothing and gloves. Adhesive coverage must be a minimum of 80%.

Concrete floors out of level 3mm in 3 metres must be levelled with **Level Floor**.

Trowel the adhesive with appropriate trowel so that the ridges are 90° to the direction of the boards. Do not place and slide the boards across the adhesive as this method flattens the adhesive ridges and may result in a poor bond.

Do not spread more adhesive than can be used in 20 minutes. If a film forms on the adhesive, remove and discard the product and reapply new adhesive. Clamp or hold down the timber until the adhesive has initially set (approx. 4 hours). Full cure occurs in 7 days at 23°C @ 50% relative humidity, the floor can be walked on lightly in 24 hours. Do not sand/coat the floor for 48 hours.

### Cleaning Up

Uncured **Ultrathane** may be removed from tools and equipment with mineral turpentine. Once cured, the material can only be removed mechanically.

### Cure Time

Approximately 3mm in 24 hours, depending on temperature and humidity.

### Storage and Handling

Store between 5-30°C in shaded, dry conditions. Seal opened containers immediately after use. Shelf life 9 months in an unopened container from date of manufacture.