

Ultrathane

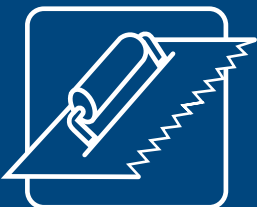
Packaging



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
- **Solvent-free (zero VOC)**

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 0.8m²
 10 litres covers 10-12m²

Specification

The 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.

CONSTRUCTION ADHESIVE

Ultrathane can be used to provide a permanently elastic bond to fasten materials with dissimilar and similar coefficient of expansion. A test area is recommended if in doubt about the substrate before proceeding.

Surface Preparation

Apply to clean, uncontaminated surfaces. Sand or grind if necessary to expose a sound surface.

Application

Apply the **Ultrathane** with a caulking gun, trowel or spatula to one of the surfaces to be bonded. Force the adhesive into the gaps or

cracks and smooth the adhesive to the desired profile. Be certain to fill all gaps when applying to rough surfaces. Press the surfaces to be adhered together and clamp until the adhesive has fully cured.

Cure Time

Ultrathane is tack-free in 1-2 hours at 23°C @ 50% relative humidity and full cure is in 5-8 days.

DIRECT STICK TIMBER FLOORING ADHESIVE

Surface Preparation

Substrates must be structurally sound, clean, dry and free from oil, grease, laitance dust and all other contaminants. 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).

Cure Time

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

Precautions

Impervious gloves are recommended to be worn during application. Wipe off immediately material that gets on skin or clothing.

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.



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The information contained in this technical publication is based on our current knowledge and experience and is provided as a guide only. In view of the many factors that may affect application it is the user's sole responsibility to ensure suitability for a specific purpose.