X3

SMP Timber Flooring Adhesive





DESCRIPTION:

RLA X3 is a single-part, permanently flexible, isocyanate-free adhesive with enhanced moisture vapour barrier and sound reducing properties for high performance timber flooring applications

FEATURES AND BENEFITS:

- Green Tag Certified
- Solvent & Isocyanate free
- Low VOC
- 90% RH resistant formulation
- Enhanced noise reduction / acoustic properties
- Easy to apply
- High initial grab
- Non-Flammable

RECOMMENDED USE:

- Bonding, Solid timber and Engineered timber flooring to concrete and timber substrates
- Timber flooring applications over concrete with elevated RH levels
- Timber flooring applications where enhanced sound reducing properties are required
- Applications with underfloor heating

SURFACE PREPARATION:

- Substrates must be dry, sound, clean, and in accordance with relevant Flooring Coverings Australian standards and Local Building codes.
- Substrates must be free of all surface contaminants such as wax, grease, oil, old adhesives, curing compounds, and any other contaminants that may compromise adhesion
- Structurally unsound layers and surface contaminants must be removed using recommended mechanical methods including shot blasting and diamond grinding back to a clean, sound, and open porous surface
- The minimum subfloor temperature before commencing installation should be 10°C
- Where temperatures are less than 10°C or higher than 28°C, please contact RLA Technical department for further details.

CONCRETE SUBSTRATES:

- All concrete subfloors must be tested for moisture content in accordance with Australian Standards prior to the installation of any floorcoverings
- RLA X3 can be applied to concrete substrates with moisture content up to 85% relative humidity (RH) in **"Standard Adhesive Application"**
- For enhance **Vapour Barrier** and **Noise Reducer Acoustic Performance**, X3 can be applied to concrete substrates with moisture content up to 90% RH
- For substrates that display moisture levels above 90% RH, or surfaces subject to continuous moisture, **RLA MOISTURE SEAL** is to be used
- Indentations and uneven concrete subfloors should be treated with the **RLA TRULEVEL** range of levelling compounds. Refer to individual product TDS for further information and application instructions

TIMBER SUBSTRATES:

- Timber flooring must be solid, sound, clean and free from wax, oils and gaps between boards
- Particle Board may be coated with a resin waterproof protective layer that can act as a bond breaker and affect adhesion to applied finishes. Remove by sanding the subfloor before applying timber flooring.
- When fixing over timber substrates, Timber Flooring should be nailed/ secretly fixed in combination with the adhesive application
- Always ensure adequate crossflow ventilation and minimum height clearances between the earth and the timber flooring as per relevant Australian Standards. Failure to have sufficient ventilation can result in moisture build-up under the subfloor and compromise the installation of underlayment and floor coverings.

APPLICATION:

STANDARD ADHESIVE APPLICATION

- **Suitable for standard adhesive applications over floors with moisture content up to 85% RH**
- Apply X3 Adhesive evenly with a 3.2mm x 3.2mm V3 notched trowel or a 4mm x 4mm V4 notched trowel at a coverage of approximately 1.1-1.3 m^2 per litre
- Install the timber flooring into the wet film of adhesive with adequate downward pressure to ensure transfer occurs between the adhesive film and the timber flooring
- Ensure 100% transfer between the substrate and timber flooring and maintain complete contact with the adhesive until full cure is achieved

Note: Always refer to the timber manufacturer's instructions for specific trowel size as a larger notched maybe required.

VAPOUR BARRIER PERFORMANCE APPLICATION:

- **Suitable for vapour barrier performance applications over surfaces up to 90% RH**
- Apply X3 adhesive evenly with a 5mm x 5mm V5 notched trowel at a coverage of approximately 0.9m^2 per litre or 9.0m2 per 10lt (15kg Pail)
- Install the timber flooring into the Wet Film of adhesive with adequate downward pressure to ensure transfer between the adhesive film and the timber flooring.
- For the adhesive to function correctly for Vapour Barrier performance, the trowelled adhesive must be flattened when the timber is pressed into the adhesive to ensure a homogenous adhesive film forms a barrier between the subfloor and the timber floor covering.
- Ensure 100% transfer between the substrate and timber flooring, maintaining full contact with the adhesive until a complete cure is achieved. This will enable the vapour barrier to form when fully cured.
- The timber may require weighting down as the adhesive initially cures
- For best results, timber flooring should be installed within 20 minutes of applying the adhesive

Note: Always refer to the timber manufacturer's instructions for specific trowel size as a larger notched maybe required.

VAPOUR BARRIER PERFORMANCE

Water Vapour Transmission (g/m²-d)
5.15

NOISE REDUCER ACOUSTIC PERFORMANCE APPLICATION:

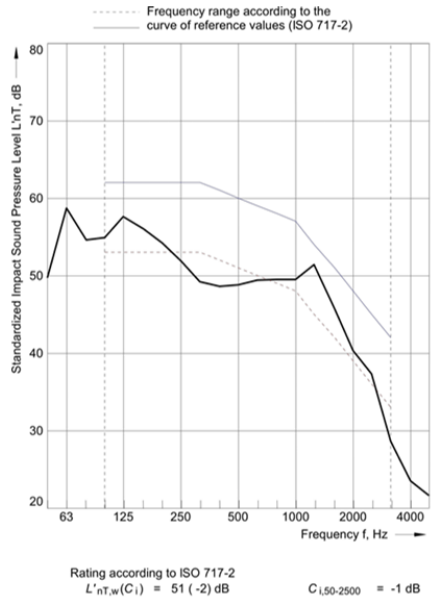
- **Suitable for enhanced noise reducer performance applications over floors with moisture content up to 90% RH**
- Apply X3 adhesive evenly with a 5mm x 5mm V5 notched trowel at a coverage of approximately 0.9m^2 per litre or 9.0m2 per 10lt (15kg Pail)
- Install the timber flooring into the Wet Film of adhesive with adequate downward pressure to ensure transfer between the adhesive film and the timber flooring.
- For the adhesive to function correctly for Vapour Barrier performance, the trowelled adhesive must be flattened when the timber is pressed into the adhesive to ensure a homogenous adhesive film forms a barrier between the subfloor and the timber floor covering.
- Ensure 100% transfer between the substrate and timber flooring and full contact with the adhesive until a complete cure is achieved.
- The timber may require weighting down as the adhesive initially cures
- For best results, timber flooring should be installed within 20 minutes of applying the adhesive

Note: Always refer to the timber manufacturer's instructions for specific trowel size as a larger notched maybe required.

NOISE REDUCER ACOUSTIC PERFORMANCE:

Substrate	Floorcovering	Ceiling	Result
Concrete 200mm	**Engineered 14mm**	**13mm suspended plasterboard no insulation**	**L'nT,w51DB**

Frequency f Hz	L'nT 1/3 Octave dB
50	47.3
63	55.9
80	54.9
100	55.8
125	56.0
160	55.8
200	53.0
250	51.3
315	49.5
400	48.5
500	48.6
630	48.5
800	49.6
1000	51.1
1250	54.7
1600	51.5
2000	51.1
2500	55.2
3150	53.7
4000	51.4
5000	49.0



CURE TIME:

- Cure times can vary substantially and depend on weather conditions such as temperature and humidity. Typically, SMP will form a firm skin in one hour and cure in approximately 24 hours.
- Hotter and more humid conditions will increase the cure rate and decrease the skin time, whereas colder climates and lower humidity will reduce cure times and increase skin time.
- Do not allow heavy traffic for 24 hours
- Sanding can commence 3 to 7 days after the completion of the entire installation but may vary due to climatic conditions; please check with the manufacturer

COVERAGE:

- 3.2mm x 3.2mm V3 or 4mm x 4mm V4 notched trowel will achieve an approximate coverage of 1.1 – 1.3 m^2 per litre
- 5mm x 5mm V5 notched trowel will achieve an approximate coverage of 0.9m^2 per litre

CONTAINER SIZES:

10litre / 15kg pail
600ml sausages

SHELF LIFE / STORAGE:

- 12 months stored in original unopened packaging
- Best stored in a dry area at room temperature
- Keep off cold floors and out of direct sunlight

PRECAUTIONS:

- Always ensure the flooring is placed into a wet adhesive film and apply sufficient pressure to transfer between the adhesive and floor covering.
- DO NOT allow the adhesive to skin, and DO NOT place timber flooring onto the skinned glue
- Ensure 100% (Transfer) contact between the substrate and the back of each piece of timber, maintaining complete contact with the adhesive for a minimum of 24 hours or until full cure is achieved - (mechanical fixing or weighing down is recommended).
- Do not walk on laid matting during the first four hours of adhesive after installation. Avoid air entrapment when making the bond or filling joints.
- For application details of timber flooring systems, contact the manufacturer. Care should be taken to prevent any reaction or damage to prefinished timber coatings
- If in doubt regarding the suitability of the adhesive, always contact the manufacturer
- Do not use adhesive in extreme hot or cold conditions, i.e., below 10°C or above 28°C.
- This adhesive will not stand up to hydrostatic pressure or capillary action. Refer to **RLA MOISTURE SEAL**
- Timber flooring systems must be acclimatised; refer to the timber flooring manufacturers' recommendations before using this adhesive.
- Do not apply over acrylic or PVA primers/sealers.
- Not recommended to be used in totally confined spaces as it requires atmospheric moisture to cure properly.
- Do not expose to water or alcohol-based cleaners before completely cured
- The Adhesive must be fully cured before sanding; allow a minimum of 72 hours
- Compatibility tests must be first carried out. Due to the many forms of timber flooring available today, the installer should undertake preliminary adhesion testing to confirm adhesion. RLA Polymers can assist with large projects.
- Do not apply over dense burnished concrete surfaces without abrading first to obtain a mechanical key for the adhesive to bond.

HEALTH & SAFETY:

For information and advice on the safe handling, first aid, storage and disposal of chemical products, users must refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

WARRANTY STATEMENT:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.
We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.
RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where the product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with relevant Australian Standards.
Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.
Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.
The consumer is responsible for any expenses incurred in making a claim.
A claim form can be requested by:

PHONE: 1800 242 931
EMAIL: info@rlapolymers.com.au
MAIL: 215 Colchester Road Kilsyth Victoria 3137 (Attention Customer Service)
WEBSITE: www.rlapolymers.com.au

AUSTRALIAN CONSUMER LAW:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

DISCLAIMER:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed.
Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.

RLA Polymers Pty Ltd ACN 004 709 915

Head Office
215 Colchester Road
Kilsyth, Victoria, 3137
Tel: 1800 242 931

New South Wales
5A 246 Miller Road
Villawood, NSW, 2163

Queensland
57 Fulcrum Street
Richlands, QLD, 4077

South Australia
Unit 2/7 Berger Road
Wingfield ,SA, 5013

Western Australia
24 Hanwell Way
Bassendean, W.A, 6054
Tel: 08 9279 8911