RLA X3 ALL IN ONE

SMP TIMBER FLOORING ADHESIVE

DESCRIPTION:

RLA X3 SMP TIMBER FLOORING ADHESIVE is a single-part, permanently flexible isocyanate-free timber flooring adhesive.

RECOMMENDED USE:

RLA X3 SMP Timber Flooring Adhesive is recommended for bonding, Solid Timber Flooring and Engineered Timber Flooring to Concrete and Timber Substrates. RLA X3 SMP Timber Flooring Adhesive can also be applied to concrete substrates with underfloor heating.

FEATURES AND BENEFITS:

- ✓ Green Star Compliant
- ✓ Isocyanate free
- ✓ Low VOC
- ✓ 90% RH Resistant formulation
- ✓ Vapour Barrier
- ✓ Noise reducer
- ✓ Easy to apply
- ✓ Non-Flammable.

SURFACE PREPARATION:

Subfloors must be dry, sound, smooth, clean, and by the relevant Floorcoverings Australian Standards 1884-. Subfloors must also be free of wax, grease, oil, polishes, old adhesive, curing compounds, high levels of moisture (> 90% RH) and any other surface contaminants that may affect adhesion. If mechanical preparation is required, prepare the floor using recommended methods such as shot blasting, scarifying, and diamond grinding to provide a roughened, clean, sound, solid and open porous surface. The minimum subfloor temperature before commencing installation should be 100C. Do not use solvents or acid etching to clean the subfloor.

STANDARD ADHESIVE:

All concrete subfloors must be tested for moisture content. Relative humidity readings should be determined as per ASTM F2170. Ensure the relative humidity (RH) is below 85% (tested as per ASTM F2170 in-situ probe method). If the RH of the sub-floor is above 85%, we recommend the use of ***RLA MOISTURE SEAL***

3 IN 1 ADHESIVE, VAPOUR BARRIER & MEMBRANE SYSTEM:

This product can be used as a vapour barrier for up to 90% RH on concrete substrates. If the RH of the sub-floor is above 90% RH, we recommend using ***RLA MOISTURE SEAL***. The minimum subfloor temperature before commencing surface preparation and adhesive application is 10°C. Please refer to the application instructions below. The manufacturer's recommendations should treat indentations and uneven concrete subfloors with the RLA range of levelling compounds. Contact our technical staff for advice when temperatures less than 10^0C or greater than 30^0C are encountered.

MOISTURE PROTECTION:

Concrete slabs can be a source of excess moisture.
To prevent moisture migration, apply Two coats of ***RLA MOISTURE SEAL*** ensuring the second coat is applied perpendicular to the first coat's direction. Applying Timber Flooring Adhesive onto RLA Moisture or Vapour Barrier, ensure the adhesive is applied onto the Moisture Barrier within four days after the Moisture Barrier application has taken place and cured. Ensure the Barrier is clean and free from dirt, dust and any other contaminant that may affect adhesion. Concrete slabs can be a source of excess moisture.

CONCRETE SUBSTRATES:

Subfloors must be dry, sound, smooth, and clean, and any contaminants that may affect adhesion and by the relevant Floorcoverings Australian Standards. All concrete subfloors must be tested for moisture content before applying the adhesive, primers, and barriers. The manufacturer's recommendations should treat indentations and uneven concrete subfloors with the RLA range of levelling compounds.

TIMBER SUBSTRATES:

Timber flooring must be solid, sound, clean and free from wax and oil, free from gaps, Securely Fixed and by the timber flooring manufactures Instructions and relevant Australian Standards.

Timber Flooring and Particle Board may be coated with a resin waterproof protective layer. This layer can act as a bond breaker and affect adhesion to applied finishes. It should be removed by sanding the subfloor before applying timber flooring.

It is recommended to install timber flooring onto timber substrates; Timber Flooring is nailed/ secretly fixed in combination with the application of adhesive.

Please ensure adequate crossflow ventilation and the minimum height clearance between the earth and the timber flooring is by the 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.

VAPOUR BARRIER & MEMBRANE SYSTEM:

When applying this adhesive onto concrete substrates up to 90% RH as a vapour barrier, ensure RLA X3 adhesive is applied with a 5mm to 6mm V notched trowel and 100% transfer of the adhesive film is achieved

If the RH of the sub-floor is above 90%, we recommend using RLA Two Part Epoxy Moisture Barrier.

VAPOUR BARRIER PERFORMANCE:

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. 100% Transfer contact between the substrate and timber flooring must be required.

Apply adhesive evenly with a 5mm to 6mm V notched trowel.

Water Vapour Transmission (g/m^2-d)
5.15

NOISE REDUCER ACOUSTIC PERFORMANCE:

When 100% transfer of the adhesive film is achieved, RLA X3 Timber Flooring Adhesive provides a noise-reducer barrier over substrates.

Apply adhesive evenly with a 5mm to 6mm V notched trowel.

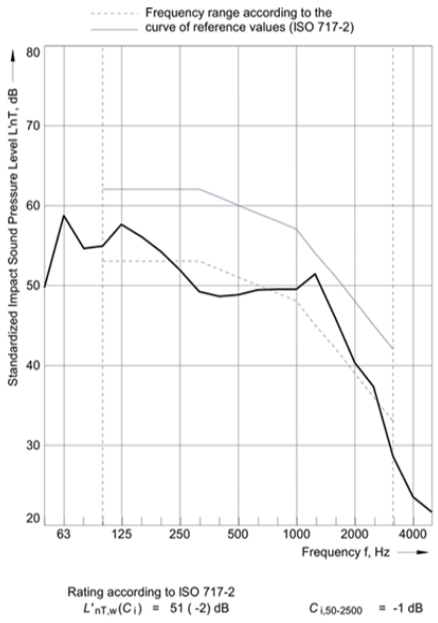
The trowelled adhesive must be flattened when the timber is pressed into the adhesive to ensure a homogenous adhesive film forms a barrier between the subfloor and the timber floor covering. 100% transfer contact between the substrate and timber flooring must be required

NOISE REDUCER ACOUSTIC PERFORMANCE:

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

NOISE REDUCER ACOUSTIC PERFORMANCE:

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



APPLICATION:

STANDARD ADHESIVE-ONLY APPLICATION

Apply adhesive evenly with a 4-5mm V notched trowel - please refer to the timber manufacturer's instructions for specific trowel size at a rate of approx. 1 – 1.2 m2 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; provide full contact with the adhesive until a complete cure is achieved.

For best results, timber flooring should be installed within 20 minutes of applying the adhesive.

Please note: The timber may require mechanical fixing or weighting down as the adhesive initially cures.

NOISE REDUCER & VAPOUR BARRIER PERFORMANCE APPLICATION:

Apply adhesive evenly with a 5mm to 6mm V notched trowel – achieving 0.5- 0.8 m2 per litre/ 5- 8m2 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, ensure 100% transfer between the substrate and timber flooring and 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.

CONCRETE SUBSTRATES:

Depending on the above application method, Apply the adhesive evenly with a 4-6mm V notched trowel - please refer to the timber manufacturer's instructions for specific trowel size.

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.

A minimum of 100% (Transfer) contact between the substrate and timber flooring is required, and maintain complete contact with the adhesive until full cure is achieved.

TIMBER FLOORING SUBSTRATES:

Depending on the above application method, apply the adhesive evenly with a 4-6mm V notched trowel - please refer to the timber manufacturer's instructions for specific trowel size.

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.

A minimum of 100% (Transfer) contact between the substrate and timber flooring is required maintaining complete contact with the adhesive until full cure is achieved.

It is recommended to install timber flooring onto timber substrates; timber flooring is nailed/ secretly fixed in combination with the application of adhesive.

Do not allow heavy traffic for 24 hours. Sanding can commence 3 to 7 days after the completion of the entire installation. Please note: Sanding times may vary due to climatic conditions; please check with the manufacturer.

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.

COVERAGE:

4-5mm V notched trowel will achieve approximately 1-1.5 square metres per litre. 6 mm V notched trowel will reach about 0.5- 0.8 square metres per litre.

CONTAINER SIZES:

10-litre/15kg containers

SHELF LIFE / STORAGE:

12 months when stored in original unopened packaging
To be stored in a dry area off the ground.

PRECAUTIONS:

- Please ensure the flooring is placed into the wet adhesive film and apply sufficient pressure to transfer between the sticky film and floor covering.
- DO NOT allow the adhesive to skin, and DO NOT place timber flooring onto the skinned glue.
- A minimum of 90% (Transfer) contact between the substrate and the back of each piece of timber is required, and maintain complete contact with the adhesive until full cure is achieved after a minimum of 24 hours (mechanical fixing or weighing down is recommended).
- Vapour barrier and noise reducer performance by applying the adhesive evenly with a 6 mm V notched trowel and ensuring the timber flooring is placed into the wet adhesive film.
- Application of timber flooring adhesive directly onto ***RLA MOISTURE SEAL***. Ensure the adhesive is applied onto the Moisture Barrier within four days after the application of the Moisture Barrier has taken place and cured.
- 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.
- Do not use adhesive in extreme hot or cold conditions, i.e., below 100C or above 300C.
- This adhesive will not stand up to hydrostatic pressure or capillary action. • Ensure your trowel is consistently notched to the manufacturer's recommendations.
- Timber flooring systems must be acclimatised; refer to the timber flooring manufacturers' recommendations before using this adhesive.
- If in doubt regarding the suitability of the adhesive, always contact the manufacturer
- Always follow the manufacturer's instructions
- 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 the complete cure.
- 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.

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