

REGUPOL sonus multi 3 + Resilient

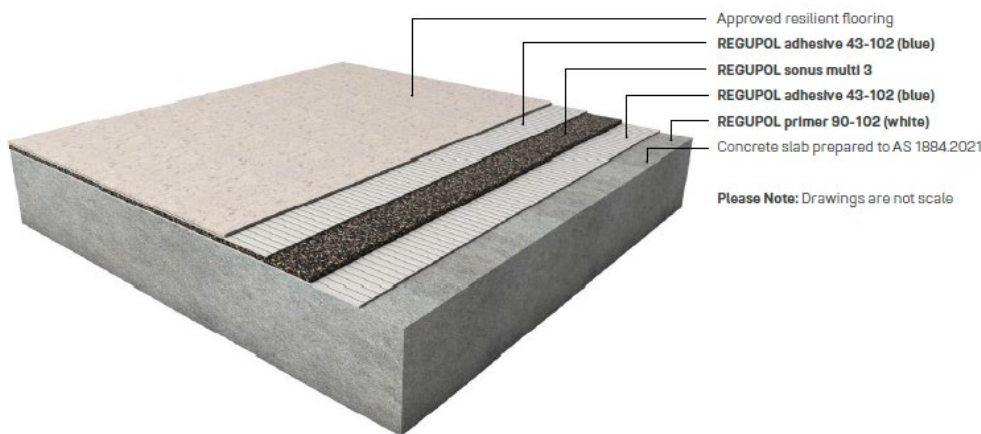
Installation Guideline

The **REGUPOL sonus** acoustic underlays are engineered to meet the highest sound insulation standards, providing an effective solution for noise control in various environments. To ensure optimal performance, closely following the manufacturer’s installation guidelines is crucial. This includes adhering to the Australian Standard AS 1884:2021 for resilient sheet and tile flooring installation practices. (The updated AS 1884:2021 supersedes the previous version from 2012).

These resources MUST be reviewed thoroughly before beginning the installation of this product. Please download or request your installation guidelines, which are detailed below.

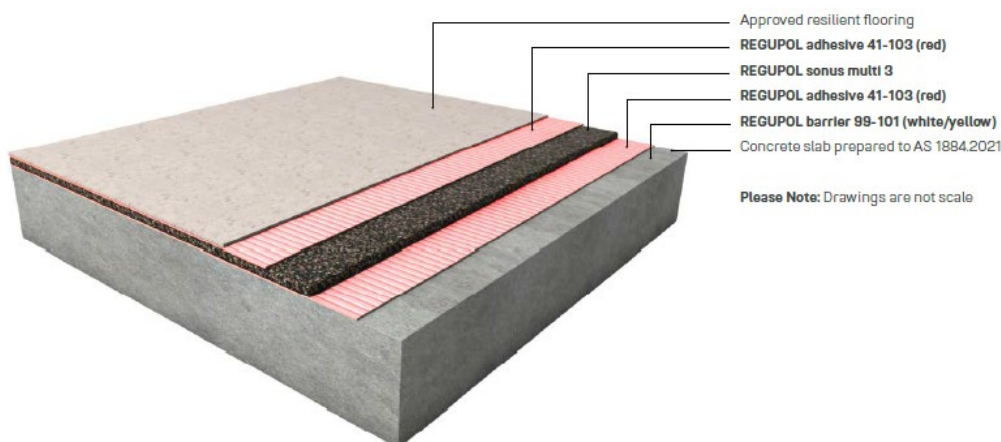
Adhesive and primer for dry areas

The **REGUPOL adhesive 43-102** (blue) multi-use flooring adhesive is a versatile, water-based polymer adhesive designed to securely bond **REGUPOL sonus** acoustic underlay products to concrete and various approved substrates. It is suitable for indoor dry-area installations. However, it is important to note that this adhesive is unsuitable for wet, external, high-thermal and high-impact applications, so it should be used within specified conditions to maintain its effectiveness. For porous substrates, apply the **REGUPOL primer 90-102** (white).



Adhesive other areas, high impact, high thermal/sun drop areas

The **REGUPOL adhesive 41-103** (red) resilient two-part adhesive is a specialised two-part polyurethane product designed for bonding **REGUPOL sonus** acoustic underlays products. It is particularly effective in environments that experience high impact, significant temperature fluctuations, and exposure to sunlight. Some vinyl manufacturers also prefer this adhesive for warranty purposes. Apply the **REGUPOL barrier 99-101** (yellow) if the moisture content in the subfloor exceeds the required levels. Note: **REGUPOL** does not provide wet area details for approved resilient floors. Please contact us for further assistance.



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Approved Resilient Flooring, Cork, Carpet Tiles

- **Compatibility:** Ensure compatibility and suitability with the selected floor covering, **REGUPOL sonus** acoustic underlay, and substrate.
- **adhesive Testing:** If required, conduct adhesive testing with the **REGUPOL** range of adhesives to confirm that they work well with the chosen floor covering.
- **Flooring Manufacturer’s Approval:** Obtain approval from the flooring manufacturer to ensure they will warrant their flooring when used over the selected **REGUPOL sonus** acoustic underlay.
- **Specifications:** Refer to the architectural specifications and acoustic specifications.

Tool Checklist

To ensure a successful installation, the following tools are required:

- **Measuring Tape:** Tradesman quality measuring tape.
- **Utility Knife:** Tradesman quality snap blade utility knife.
- **Straight Edge and T-square.**
- **Trowel:** Appropriate trowel to spread adhesive.
- **Medium-weight resilient flooring roller,** approximately 35kgs.
- **Nap Roller and Tray:** Appropriate nap roller and tray to apply **REGUPOL primer 90-102 (white)** or **REGUPOL barrier 99-101 (yellow).**
- **Drill with Mixer:** Drill with mixer for **REGUPOL adhesive 41-103 (red)** and **REGUPOL barrier 99-101 (yellow).**
- **Safety:** Protective gloves, safety glasses, respiratory protection.
- **Clean-up:** Appropriate cleaning supplies.

Subfloor Moisture Testing

Conducting moisture testing of the subfloor is essential to ensuring a successful installation. If the flooring manufacturer requires a specific maximum value, always follow their guidelines.

Dryness	Relative Humidity (RH)	Moisture Vapour Emissions	Timber
Before installation, the moisture content must be at the required level for the selected flooring system and adhesive.	The concrete RH should not exceed 80% as tested using the ASTM F2170 in-situ probe method.	The secondary test method for concrete that cannot be tested by drilling should not exceed 15g/m2/24 hours when tested to ASTM F1869.	For timber, plywood, and particleboard subfloors, the moisture content ranges from 10-14% when tested to AS/NZS 1080.1. For plywood subfloors testing to AS/NZS 2098.1.

Moisture Barrier	If the substrate exceeds the required moisture content, use REGUPOL barrier 99-101 (yellow) A + B, a two-part epoxy moisture barrier. Only the REGUPOL barrier 99-101 (yellow) can be used when using the REGUPOL adhesive 41-103 (red). Note: The REGUPOL adhesive 41-103 (red) will not withstand hydrostatic pressure or capillary action. Before application, the REGUPOL barrier 99-101 (yellow) A + B, a two-part epoxy moisture barrier, must be applied.
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Subfloor Surface Quality and pH level

The quality of the subfloor should be:

Cleanliness	Surface Treatment Removal	Visual Soundness	Smoothness	Projections and Deviations	Surface pH
Be clean and free of any deposit or finish that may impair adhesion.	Mechanically remove all surface treatments, including sealers, adhesives, hardeners, and curing compounds.	Be visually sound without cracks, crazing, dusting, rain damage, spalling, efflorescence, or blistering.	Be homogenous with no holes, lumps, or sudden rise or fall.	Projections and deviations of no more than 0.5mm when tested under a 150mm straight edge.	If the pH level exceeds nine (9), it must be neutralised before installation begins.

Suitable Substrates Other Than Concrete

REGUPOL sonus acoustic underlays are suitable for direct bonding to:

Acceptable substrates include	Quality and Standard
Standard Hardboard Underlay Type GP	Quality to conform with AS/NZS 1859.4.
High-Performance Medium Density Fibreboard (HP MDF)	Quality to conform with AS/NZS 1859.2.
Plywood Underlay Grade C	Quality to conform with AS/NZS 2269.0.
Fibre Cement Sheet Underlay	Quality to conform with AS/NZS 2908.2.
Applied Underlayment	Designed explicitly for timber composite floors.
Engineered Screeds	Engineered screed subfloors are preferred as they are designed to comply with the stringent requirements of AS 1884:2021, ensuring a suitable foundation for resilient flooring products, such as REGUPOL .

Unsuitable Substrates

REGUPOL sonus acoustic underlay products are unsuitable for direct bonding to:

Unsuitable substrates include	Comments
Autoclaved Aerated Concrete (AAC)	Due to the product porosity, the cellular concrete should be prepared using an acceptable substrate.
Magnesite	This floor should only be assessed and prepared by a qualified installer with experience with Magnesite.
PVC, Butyl, or Other Sheet Waterproof Membranes	Some REGUPOL products may be suitable for installation loose-laid/non-bonded over these substrates. Contact REGUPOL for suitability.
Particleboard floors	Also known as chipboard, yellow tongue, red tongue, blue tongue, Structaflor, Oriented Strand Board (OSB), fiberboard, or Medium Density Fiberboard (MDF).
Sand and cement screeds	Sand and cement screeds, even with additives, are not recommended substrates for REGUPOL products.

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Other Substrates

REGUPOL sonus acoustic underlay products are **unsuitable** for direct bonding liquid-applied waterproof membranes, metal, aluminium, steel, and access floor substrates **without testing or written approval**. Please contact REGUPOL for suitability.

Conditioning requirements on-site

- Ensure the ambient temperature is between 15°C and 28°C during installation.
- Ensure the building is fully enclosed and weathertight.
- Complete all other trades and ensure all surfaces are dry.
- When installing REGUPOL sonus acoustic underlay, it is crucial to allow the material and the REGUPOL adhesives to acclimatise on-site. This process involves unrolling the underlay, cutting it to the required size, and then stacking facing upwards. It is recommended to leave the cut pieces to rest overnight, ideally for up to 24 hours, to ensure they settle properly.

Cutting and Conditioning

- Due to the natural stretching of the material when wound onto cylinder coils, it is important to account for this by allowing extra length for pullback. When cutting the material into manageable sections, add a minimum of 100mm to each cut length to compensate for this stretch. This careful preparation will help ensure a smooth installation and optimal performance of the acoustic underlay.
- Continue cutting the remainder of the roll lengths with extra length to complete the area.
- Allow all cuts to relax and condition for up to 24 hours before trimming or adhering to the material (minimum of 4 hours).
- Ensure the REGUPOL sonus multi 3 acoustic underlay is installed in the same direction.
- Ensure the REGUPOL sonus multi 3 is installed with the sanded side facing up, this is the facing side when opening the roll.
- After conditioning, trim the side of the last roll positioned to obtain a snug but not overly tight edge that finishes against the wall.
- Do not trim the ends of runs at this stage.
- Cutting and adhering must be done on the same day to avoid shrinkage.
- Align the roll edge to the chalk line, ensuring a straight edge for the first seams.
- Position all other rolls ready for adhesive application, ensuring no gaps between rolls and a tight butt joint is maintained between sheets.

Adhesive Application

- Roll the pieces back up to expose the substrate ready for the adhesive application or fold the material halfwidth of the run (fold back lengthwise).
- Apply the specified REGUPOL adhesive as per the adhesive technical data sheet.
- Use the specified trowel size to ensure correct volume and coverage.
- Carefully monitor your trowel notches, and do not use worn trowels, as they will not allow for adequate adhesive transfer.
- Starting from the midpoint of the room, evenly spread the adhesive.
- Take care not to apply more adhesive than can be laid into before the adhesive starts to skin over (climate conditions will vary this time frame).
- Work within the timing of the adhesive pot life.

Final Steps

- Carefully roll back the material into the adhesive, ensuring the piece is positioned correctly in relation to the edge of the nearest wall or roll edge.
- Do not drop the material into the adhesive, as this will cause air to be trapped under the underlay.
- Ensure that all seams are butt seamed neatly and accurately using the factory edges to ensure no gaps.

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- Trim the ends of the rolls after laying them into the adhesive.
- Do not over-compress the rolled edge when butt joining rolls, as this could cause peaking.
- Once the adhesive has tacked up, roll the material with a medium-weight standup roller before the adhesive cures.
- Roll the entire floor in both directions, ensuring optimum adhesive transference to both surfaces.
- Repeat the rolling process in 45 minutes.
- Where necessary, weigh down any seams or joins whilst the adhesive is setting.
- Do not mechanically fix through the **REGUPOL sonus** acoustic underlay.

Dual Bond Installation of Approved Resilient Floor Coverings

- Allow the adhesive to dry for at least 24 hours before adding additional floor coverings.
- Repeat the installation process using the required trowels outlined in the coverage section of this document. Ensure 100% adhesive coverage between the additional floor covering and the substrate.
- Follow the installation guidelines of the approved resilient floor covering.

Post Installation Care

- Traffic: Keep all traffic off the finished floor for up to 48 hours or as the flooring contractor instructs, whichever is greater.
- Heavy Loads: Do not apply heavy loads or move furniture on the material for 72 hours or as instructed.

Clean up

Clean tools and equipment immediately after use with warm soapy water, a suitable solvent such as white spirits, Roberts 900 Cleaner, or a citrus-based handy wipe. Cured adhesive must be removed by mechanical means.

Safety and Handling of REGUPOL Adhesives, Primer and Barrier

Please refer to the product Safety Data Sheet (SDS) for information on its safety and handling.

- Wear protective gloves and safety glasses when mixing and using.
- Avoid contact with skin and eyes.
- Wear suitable respiratory protection.
- Avoid breathing vapours.
- These materials may cause skin irritation and/or sensitisation.
- Do not eat, drink, or smoke while using this product.
- Allow for adequate ventilation when using this product.

First Aid when using REGUPOL Adhesives, Primer and Barrier

Please refer to the product Safety Data Sheet (SDS) for information on first aid.

If poisoning occurs, contact a doctor or the Poisons Information Centre at once.

For the Poisons Information Centre in Australia, call 13 11 26. For New Zealand, call 0800 764 766.

- If swallowed: DO NOT induce vomiting. Give a glass of water. Immediately call the Poisons Information Centre or a doctor.
- If on skin: Remove all contaminated clothing immediately and wash skin with warm water and soap. If skin irritation occurs, seek medical advice/attention.
- If in eyes: Rinse carefully with water for several minutes. If eye irritation persists, seek medical advice/attention.

Disposal

Please dispose of the **REGUPOL** products, empty containers and residue according to your local waste management regulations.

REGUPOL INSTALL GUIDE

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Warranty

Please refer to the relevant **REGUPOL** acoustic underlay warranty for detailed information.

Terms and Conditions of Sale

All purchases are subject to our published Terms and Conditions of Sale. For more information, visit www.regupol.com.au

Technical Support

Technical support is available. Contact **REGUPOL** on 02 4624 0050, visit www.regupol.com.au or email acousticsales@regupol.com.au

Important Notice

Any circumstances not covered by this guide should be referred to **REGUPOL Australia Pty. Ltd.** or its Distributors for any particular attention required. Please note that many factors beyond our control may affect the outcome of projects using our products. **REGUPOL Australia Pty. Ltd.** cannot be responsible for:

- Poor climate conditions
- Inadequate surface preparation
- Poor application techniques
- Failure to observe curing times
- Improper thinning of adhesives
- Any variable beyond our control

REGUPOL Australia Pty. Ltd. accepts no liability to our employees, distributors, representatives, or agents for any loss or damage, direct or indirect, that may result from using the information and suggestions as actual conditions for use that are beyond our control. Readers must ensure they are using the current installation procedure; if in doubt, please contact our team for assistance. Published 30 September 2024.

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