

REGUPOL® ACOUSTIC UNDERLAY COLLECTION

Regupol®

# SOUNDPROOFING RESILIENT FLOOR COVERINGS



**Regupol**  
Australia

## REGUPOL® AND THE ENVIRONMENT

Regupol®

**Regupol®** is a global success story. Back in the early 1960's, BSW GmbH had the ingenuity to manufacture recycled products from waste resources. The **Regupol®** brand represents the materials that make it; **Recycled Gummi Rubber** and **Polyurethane**.

The **Regupol®** brand is one of the world's largest users of recycled rubber; reducing, recycling and re-using it in the manufacture of a broad range of rubber flooring and acoustic underlay products. To maintain our high level of product quality, we actively seek out sustainable manufacturers of rubber, PU foams, EPDM rubber, cork and other sustainable materials that make up our product ranges. No production waste is land filled – all off-cuts and remnants are re-cycled and re-used. Every production process and product is examined with regard to environmental capabilities, ensuring minimal or zero negative environmental impact.



### GECA

Recycled materials and products, such as **Regupol®** can play such a major role in the design and construction of environmentally friendly and sustainable buildings. To ensure this, we have had many of the **Regupol®** Impact Sound Acoustic Underlays Good Environmental Choice Australia (GECA) certified for their environmental contribution.

The independent verification performed by GECA shows that the acoustic range of **Regupol®** recycled products are environmentally preferable and meet the requirements of GECA 25-2011 v2 - Floor Coverings Standard. Additionally, the GECA 25-2011 v2 Floor Coverings Standard is recognised by the Green Building Council of Australia (GBCA) under their Assessment Framework for Product Certification Schemes. The selected **Regupol®** products will provide a Level A sustainability factor weighting (100%) within the Green Star Sustainable Products Calculator.

Look for the Good Environmental Choice Australia tick to confirm if the product has been independently certified. For more information on GECA visit [www.geca.org.au](http://www.geca.org.au)



### NATSPEC

NATSPEC is a national not-for-profit organisation that is owned by the design, build, construct and property industry through professional associations and government property groups. NATSPEC's objective is to improve the construction quality and productivity of the built environment through leadership of information. NATSPEC is the preferred specification system for major building professionals. Government departments, contractors, consultants and architects endorse NATSPEC.

Branded worksections are technical worksections developed by NATSPEC in conjunction with a manufacture known as a NATSPEC Product Partner. Each branded worksection is based on the associated NATSPEC generic worksection and shares the same classification number. It is a MS Word document Template which follows the NATSPEC style and can be customised. Regupol Australia are a NATSPEC Product Partner, offering a national specification for our acoustic floor underlays under the 0473 REGUPOL in acoustic floor underlays branded work section.

For more information on NATSPEC visit [www.natspec.com.au](http://www.natspec.com.au)

## REGUPOL® ACOUSTIC SYSTEMS

The way we treat soundproofing of floor spaces has a big impact on the well being of those that live amongst it. To play our part, this is our BCA solutions for impact sound insulation of floors. We have taken the most requested floor finishes and matched them with the **Regupol®** Acoustic Underlay that best suits the application. **This is Regupol® Acoustics Systems... simplified for resilient floor coverings.**

The BCA's objectives are to safeguard occupants in residential buildings from illness or loss of amenity resulting from excessive noise. The BCA Part F5.4 Sound insulation rating of floors, requires a floor in a Class 2 or 3 building to have an impact sound insulation rating of no less than  $L_{n,w}$  62. The  $L_{n,w}$  rating is a measure of the ability of the floor system to suppress footfall noise and noise from other impacts. The lower this rating, the higher the impact sound reduction performance of the system.

The BCA F5.3 Determination of Impact Sound Insulation Ratings requires:

- (a) A floor in a building required to have an impact sound insulation rating must -
  - (i) have the required value for weighted normalised impact sound pressure level ( $L_{n,w}$ ) determined in accordance with AS ISO 717.2 using results from laboratory measurements; or
  - (ii) comply with Specification F5.2

This **Regupol® Acoustic System** have been tested in the laboratory in accordance with AS ISO 717.2 "Acoustics – Rating of sound insulation in buildings and of building elements". For impact sound insulation testing of floors AS ISO 717.2 Part 2. Impact sound Insulation is used. These are typical residential applications and are not exhaustive of our products and their applications. Many other acoustic systems are available for specific projects and acoustic outcomes. Contact us for further resources and access to our acoustic library of products and testing data.



Regupol® a popular choice for multi-residential construction projects





# RESILIENT FLOORS

SOUNDPROOFING RESILIENT FLOOR COVERINGS  
WITH REGUPOL® 4515-S 3MM ACOUSTIC UNDERLAY



## REGUPOL® 4515-S 3MM

**Regupol® 4515-S** is a soundproofing acoustic underlay manufactured from high quality PUR foam granulates and cork, bound with polyurethane. This unique material composition allows the acoustic underlay to be compatible with PVC flooring and will not cause plasticizer migration. The sanded finish and smooth texture of the **Regupol® 4515-S** enables the approved resilient flooring to be installed directly to the underlay, without the need for separation layers.

### Benefits include:

- German quality guaranteed
- Minimises construction heights
- Suitable for use with under floor heating
- Protects expansion joints
- Light weight material
- PVC free
- Excellent adhesion qualities
- Low odour
- Low VOC
- Made from recycled materials
- Manufactured and certified to OHAS 18001:2007, DIN ISO 9001:2008, DIN ISO 14001:2004 Management Systems
- Due to no rubber content, **Regupol® 4515-S** does not cause plasticizer migration

### Product Data - Rolls

Rolls 1m x 20lm  
Thickness 3mm



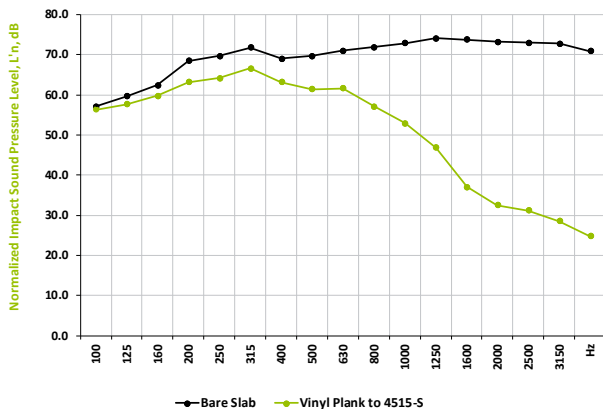
Typical application under approved resilient floor coverings



Regupol® 4515-S is manufactured from recycled PUR foam and cork

## Vinyl Plank Normalized Impact Sound Pressure Levels

Tested at CSIRO Hightett, in accordance with ISO 140-8: 1997 (E), ISO 140-6, AS ISO 717.2-2004, ASTM E989-89. Test area 11.7m<sup>2</sup>  
Results can vary when different floors are installed and/or if bonded.



### REPORT RG019 - REGUPOL® 4515-S 3MM

Layer of 2mm Vinyl Planks bonded to Regupol® 4515-S 3mm, bonded to 150mm Concrete Slab (no ceiling)

Ln,w 58 dB

Improvement  
 $\Delta L_w$  18dB

IIC 52

Complies with BCA  
Part F5.3 Impact  
Sound

# DRY AREA RESILIENT FLOORS

## with Regupol® 4515-S 3mm

This system reflects a typical **residential** application with approved Resilient Floor Coverings. For all other applications please contact Regupol's Technical Division. Please note that the drawings are not to scale and are for illustration purposes only.



### Adhesive and Sealer Information



**Regupol Resilient One Part Adhesive** is a water based synthetic polymer, VOC compliant resilient flooring adhesive. This adhesive was specifically formulated to bond selected Regupol® products to most common interior sub-floors. The product is suitable for dry area installations only.



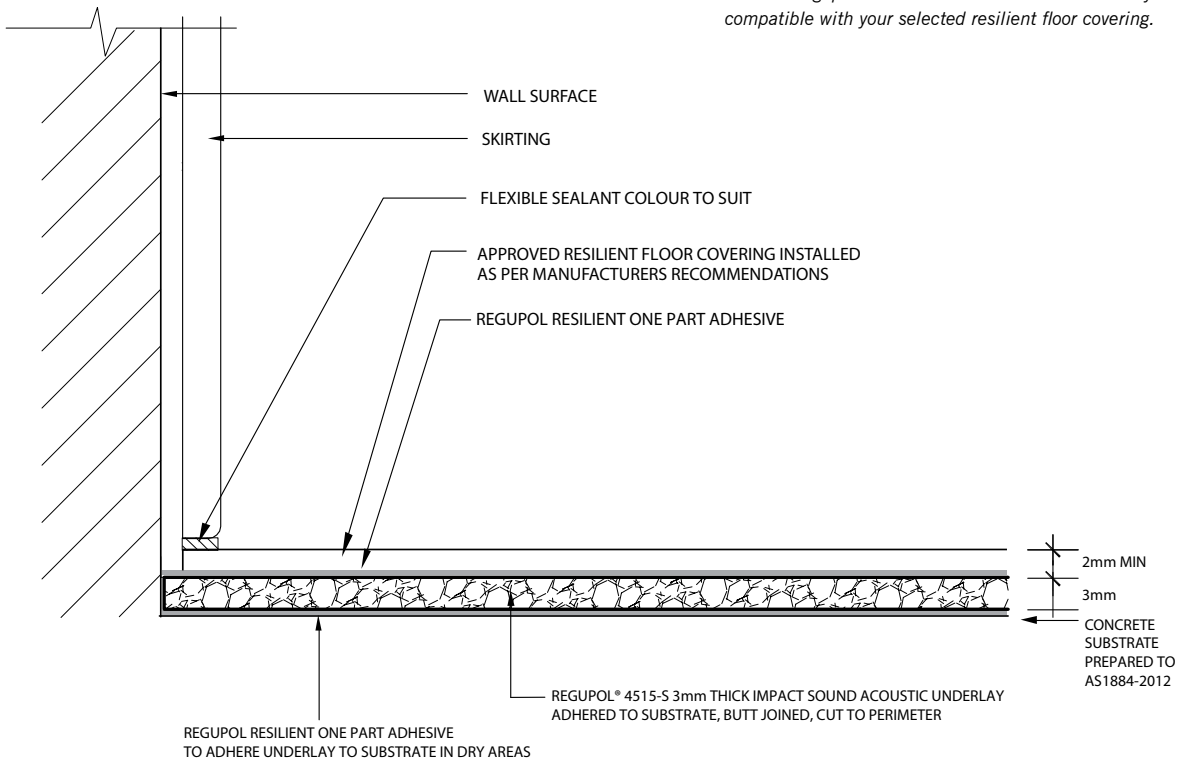
**Regupol Primer 444** is a one part, solvent free, water based synthetic polymer resin formulated to be used on concrete substrates. Regupol Primer 444 is suitable for dry area installations only.



- 1 Approved Resilient Floor Covering
- 2 Regupol Resilient One Part Adhesive\*
- 3 Regupol® 4515-S 3mm Acoustic Underlay
- 4 Regupol Resilient One Part Adhesive\*
- 5 Concrete Substrate Prepared to AS1884-2012 with Regupol Primer 444

*\* Please Note: Use Regupol Resilient Two Part Polyurethane Adhesive in direct sunlight (high thermal gain) installations.*

*Contact Regupol Technical Services to ensure this System is compatible with your selected resilient floor covering.*





# WET AREA RESILIENT FLOORS

## with Regupol® 4515-S 3mm

This system reflects a typical **residential** application with approved Resilient Floor Coverings. For all other applications please contact Regupol's Technical Division. Please note that the drawings are not to scale and are for illustration purposes only.



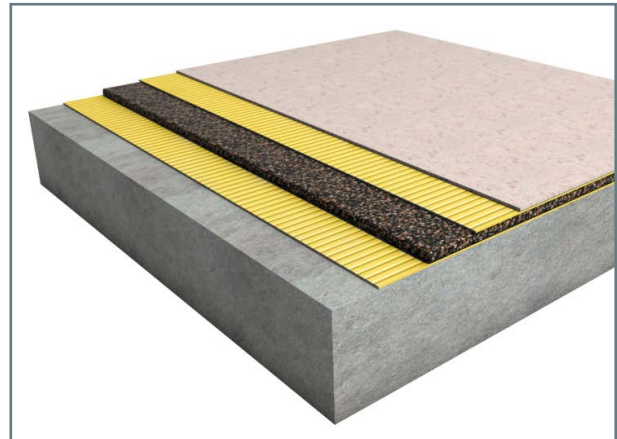
### Adhesive and Sealer Information



**Regupol Resilient Two Part Polyurethane Adhesive** is a solvent free non-flammable adhesive. This adhesive was designed to bond Regupol® products to most common interior and exterior substrates. The adhesive is suitable for wet areas. This adhesive is used for installations in direct sunlight with high thermal gain.

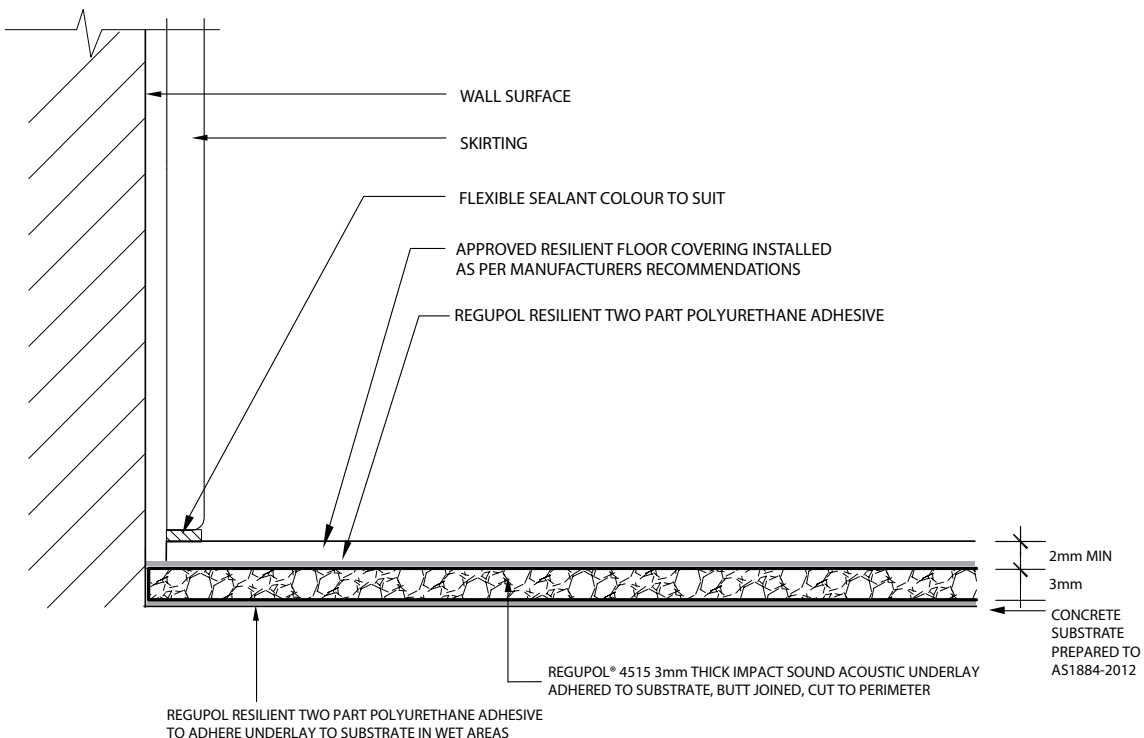


**Regupol Two Part Water Based Epoxy Moisture Sealer** is a high performance; water based two component epoxy moisture and vapour barrier formulated to prevent water seepage and permeation in building and construction substrates. Use when relative humidity exceeds the required levels.



- 1 Approved Resilient Floor Covering
- 2 Regupol Resilient Two Part Polyurethane Adhesive
- 3 Regupol® 4515-S 3mm Acoustic Underlay
- 4 Regupol Resilient Two Part Polyurethane Adhesive
- 5 Concrete Substrate Prepared to AS1884-2012.

*Please Note: Contact Regupol Technical Services to ensure this System is compatible with your selected resilient floor covering.*



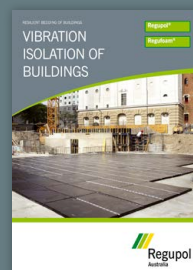
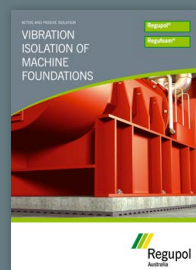
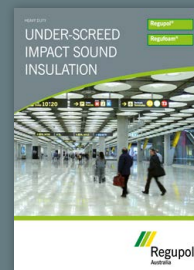
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Download or request additional information about the Regupol family of  
Vibration Isolation and Impact Sound Proofing products at [www.regupol.com.au](http://www.regupol.com.au)



**DISCLAIMER**

Information contained within this brochure is given in good faith as a suggested guide in specifying Regupol® Impact Sound Acoustic Underlays, no guarantee or warranty is expressed or implied. Any circumstances not covered by this guide should be referred to Regupol (Australia) Pty Limited or its Distributors for any particular attention required. No liability is accepted by Regupol (Australia) Pty Limited, our employees, distributors, representatives or agents, for any loss or damage, direct or indirect, that may result from using the information and/or suggestions as actual conditions for use that are beyond our control. All materials should be checked/tested for their suitability to the prevailing site conditions.