



Regupol®

# TECHNICAL DATA SHEET

## REGUPOL® 4515 ECO

### PRODUCT DESCRIPTION

Regupol® 4515 Eco is a tough, resilient, low cost acoustic underlay that has been developed to attenuate impact sound beneath a wide range of floor finishes, including carpet, wood, laminates and tiles in concrete construction. Extremely durable, flexible and sustainable, Regupol® 4515 Eco delivers cost effective impact sound insulation and is ideal for all types of developments.

Regupol® 4515 Eco meets the requirements for a bonded soft floorcovering in certain Guidance floors in Approved Document E (England & Wales), Technical Booklet G (Northern Ireland) and Example Construction floors under Section 5 (Scotland) - see performance section for details. Regupol 4515 Eco must always be used with a suitable base floor and ceiling construction.

### APPLICATIONS

Regupol® 4515 Eco is widely used in developments where effective sound control is essential and interior design flexibility is a priority. These include:

- Apartments
- Commercial developments
- Education developments
- Leisure developments
- Hotels

### PHYSICAL INFORMATION

Roll width	1,100mm
Roll lengths	20m (3mm) & 12m (4.5mm)
Material thickness	3mm & 4.5mm
Material construction	Rubber/cork

### PRODUCT COMPLIANCE

Part E/G Guidance Floor Type 1.1C	4.5mm
Part E/G Guidance Floor Type 1.2B	4.5mm
Section 5 Example Construction Floor 1A	3mm / 4.5mm



### BENEFITS

- Designed for use with a wide range of floor finishes, including carpet and tiles as well as wooden based floor finishes.
- Offers long term performance without collapse or “bottoming” out under high point loads
- Resistant to ageing and deformation
- Zero global warming potential (GWP) & zero ozone depletion potential (ODP)
- Product manufactured using Recycled Materials and 100% recyclable (manufacturer Environmental Policy available on request)

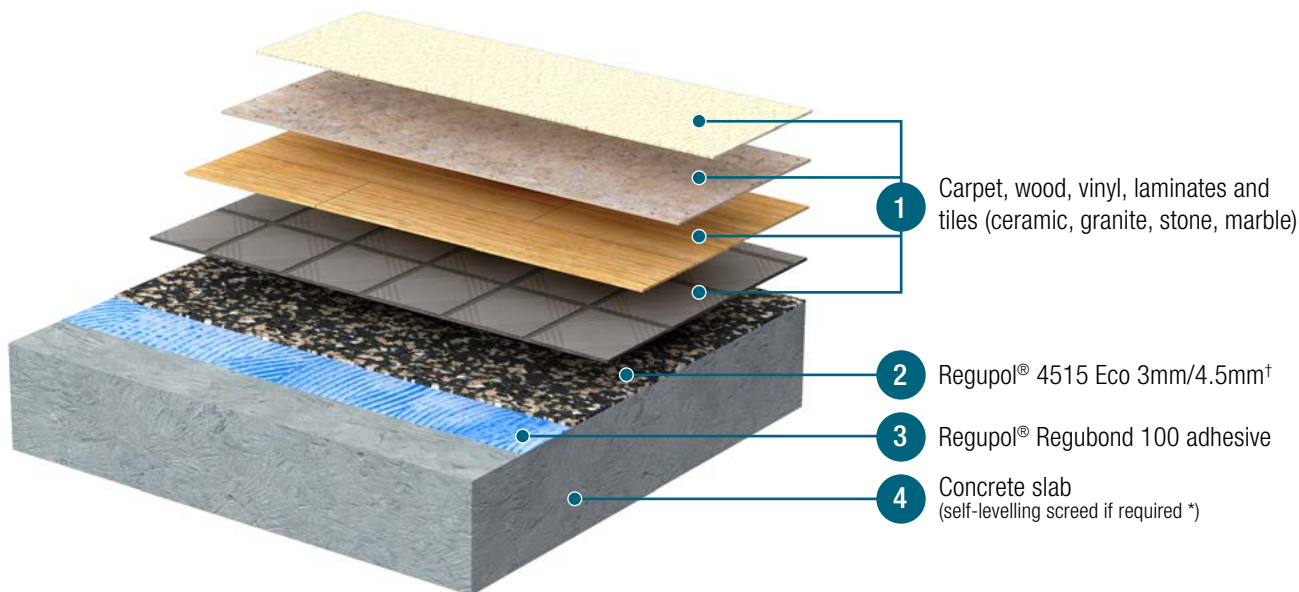
### TECHNICAL INFORMATION

Density	@ approx 470kg/m <sup>3</sup>
Tensile strength (DIN 53571)	@ approx 0.6N/mm <sup>2</sup> (3mm)
Elongation at break (DIN 53571)	@ approx 18%
Temperature resistance	-40 to +110°C

### PERFORMANCE

Impact performance $\Delta L_w$ (BS EN ISO 140-8)	3mm - 17dB 4.5mm - 18dB
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Tested under a wood layer on a Heavyweight Standard Floor.



1 Carpet, wood, vinyl, laminates and tiles (ceramic, granite, stone, marble)

2 Regupol® 4515 Eco 3mm/4.5mm<sup>†</sup>

3 Regupol® Regubond 100 adhesive

4 Concrete slab (self-levelling screed if required \*)

Full installation guidelines are available on request.

However, key points to observe are:

- Area of installation must be dry and weather tight. If over 75% RH seal with Regupur® Regushield Eco and for priming, if required, use Regupur® Reguprime.
- Regupol® 4515 Eco should be unwound and left for a minimum 8 hours or ideally overnight at the place where it is to be installed, to allow for any potential shrinkage.
- The subfloor must be sound, smooth and dry. Regupur® Regulevel 1 or 2 self-levelling compound may be required to bring the floors up to the necessary levels.\*
- Regupol® 4515 acoustic underlays can be easily installed providing BS8203 and our installation guidelines are observed at all times.
- When bonding to bare concrete a suitable concrete sealer is recommended to ensure maximum adhesive coverage and bond strength.

† Product thickness selected is based on acoustic performance required.

\* Regupur® Regulevel 1 or 2, or equal approved

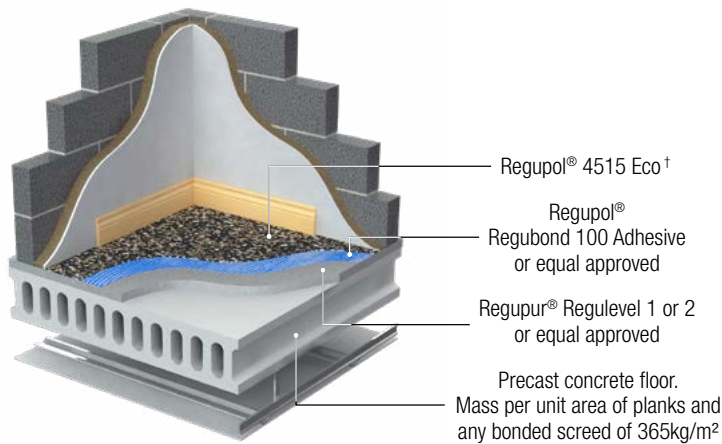
Given in the table is the general surface regularity classification for normal accuracy floors.

#### TYPE of SCREED or BASE Measurement Criteria

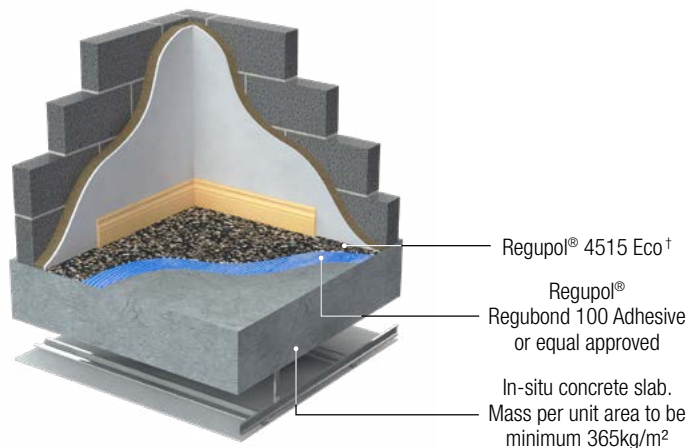
Screeds to receive applied flexible floorings		
BS 8203. 2-m straight edge laid in contact with the screed	Maximum gap measured with a slip gauge	
	SR1	3mm
	SR2	5mm
	SR3	10mm
Screeds to receive toppings or in situ applied floorings		
BS 8204-1. 2-m straight edge laid in contact with the screed	Maximum gap measured with a slip gauge	
	SR1	3mm
	SR2	5mm
	SR3	10mm
Screeds to adhesive fixed rigid tile applied floorings		
BS 5385-3. 2-m straight edge laid in contact with the screed	Maximum gap measured with a slip gauge	
	SR1	3mm
	SR2	5mm
	SR3	10mm
Screeds to receive timber flooring		
BS 8201. Localised variations in level should not exceed +/-3mm from the mean when measured over a 2-m distance using a straight edge	Maximum gap measured with a slip gauge	
	SR1	3mm
	SR2	5mm
	SR3	10mm

## TYPICAL INSTALLATION

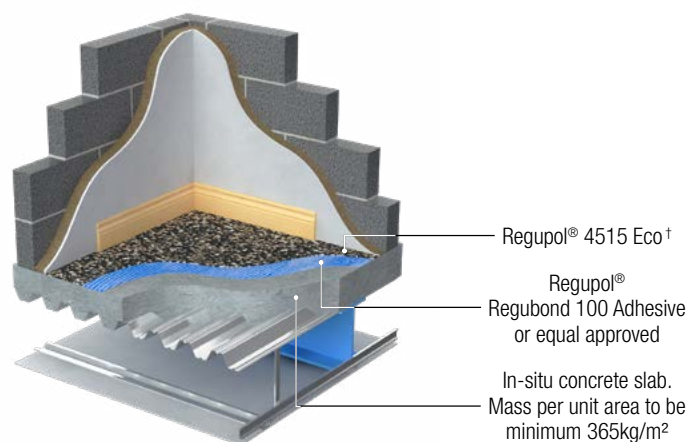
### Precast Floor



### In-Situ Concrete Slab Floor



### In-Situ Concrete Slab Floor on Permanent Hollow Rib Steeldeck



## INSTALLATION SERVICE

In addition to supply of this product CMS Danskin Acoustics can provide a listing of competitively priced experienced installers that service anywhere in the UK. Use of this service ensures that installation is performed to the highest standards by tradesmen fully experienced in the specialist skills of fitting CMS Danskin Acoustics materials correctly. Please contact your local CMS Danskin Acoustics for a list of experienced installers.

### Notes:

Regupol® 4515 Eco is manufactured from a combination of cork granules and rubber crumb. The manufacturing process of this product results in the presence of carbon black fillers, which can cause plasticizer migration; the discolouration of light coloured floor finishes such as vinyls and carpets. To avoid such potential problems, we strongly recommend the Regupol® Regubond 100 be used.

Please contact CMS Danskin Acoustics: if light colours are being used, for full range of floor finishes, and if you require a list of recommended adhesives.

For timber based constructions please contact CMS Danskin Acoustics for guidance.

† Product thickness selected is based on acoustic performance required.

**Diagrams shown are for illustrative purposes only**

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**IMPORTANT:** Directions for use are given for guidance only and are not intended to form part of any contract. They should be varied or adapted to suit your particular materials or conditions of use. It is strongly recommended that prospective users test a sample of the product under their own conditions to satisfy themselves of its suitability for the intended purpose. For the Pre Completion Testing route to compliance with the Building Regulations CMS Danskin Acoustics may provide site test evidence (where available) concerning the use of their product in a similar overall construction. Test evidence of a product passing minimum standards in one construction is not a warranty or specification that the same product will meet the desired acoustic performance level in any other building. Such evidence can only be considered indicative and should not be relied upon.

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ACOUSTICS