TECHNICAL DATA

REGUPOL SONUS MULTI 3

formerly REGUPOL 4515 Multi

Product

Tough and resilient acoustic underlay that has been developed to attenuate impact sound beneath a range of floor finishes, delivering exceptional acoustic performance without ageing or collapsing.

REGUPOL sonus multi 3 meets the requirements of Approved Document E (England & Wales), Technical Booklet G (Northern Ireland) and Example Construction floors under Section 5 (Scotland) – See performance section for details

MADE IN GERMANY

A+ [1]

REGUPOL sonus multi 3 is also available as a fire-retardant version.

[1] Tested as per French VOC regulation décret n° 2011-321

Features and Benefits

- Recommended for Vinyl sheeting, LVT, Carpet, Carpet Tiles and tiled floor finishes including ceramic, granite, stone and marble tiles. Compliant to CoR* for light duty applications such as domestic dwelling floors. Also suitable for wooden and laminate-based floor finishes
- Offers long term performance without collapse or bottoming out under high point loads
- Resistant to ageing and deformation
- Suitable for underfloor heating
- Quick and easy to install - simply bond to the subfloor beneath the final floor finish
- Independent Test Data available showing compliance with Approved Document E, Technical Booklet G and Section 5 on certain floors
- Product manufactured using recycled materials and 100% recyclable
- Manufacturing facility certified to ISO 9001, ISO 45001, ISO 14001, ISO 50001

Applications

Widely used in developments where effective sound control is essential and interior design flexibility is a priority. These include

- Apartments
- Education
- Hotels
- Commercial
- Leisure
- Bespoke architectural projects
- Care homes

Physical information

Roll width	1000mm	
Roll length	20m	
Material thickness	3mm	
Weight per roll / per m²	31kg	1.55kg/m²
Material composition	PUR foam/Cork	

*CoR (Coefficient of Restitution) for Light Duty Floors (0.55) to comply with the requirements of TTA document entitled 'Ceramic and Natural Stone Flooring to Acoustic Systems to meet the requirements of the Building Regulations Approved Document E Resistance to the passage of sound'.

Acoustical Performance	Standard	Result	Comment
160mm Robust Detail Appendix D floor with no ceiling	BS EN ISO 140-8:1998	ΔL_w 17 dB	Test report SRL 3849
4.5mm LVT vinyl planks, **REGUPOL sonus multi 3**, 150mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 2006 (E) ISO 140-6-2006	ΔL_w 18 dB $L_{n,w}$ 59 dB	Test report RG084 - INR210-04-01
4.5mm LVT vinyl planks (non-bonded), **REGUPOL sonus multi 3** (non-bonded), 150mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 2006 (E) ISO 140-6-2006	ΔL_w 19 dB $L_{n,w}$ 58 dB	Test report RG081 – INR210-01-01
2mm vinyl planks, **REGUPOL sonus multi 3**, 150mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 1997 (E) ISO 140-6	ΔL_w 18 dB $L_{n,w}$ 58 dB	Test report RG019 - INR153 Test Floor (a)
2mm sheet vinyl, **REGUPOL sonus multi 3**, 225mm concrete slab 125mm ceiling void 12.5mm plasterboard	BS EN ISO 140-4:1998	$L'_{nT,w}$ 39 dB	Project testing Orsman Road

Material properties	Standard	Result
Density		approx. 420kg/m³
Compressive stress-strain characteristic at 25% compression (CC25)	DIN EN ISO 3386-2	> 1200 kPa
Elongation at break	DIN EN ISO 1798	≥ 20 %
Tensile strength		≥ 0.8 N/mm²

Thermal behaviour	Standard	Result
Thermal conductivity	BS 4745-2005 (Two-plate)	λ = 0.086 W/(mK)
Temperature resistance		-20 to +60° C
Tog rating	BS 4745-2005 (Two-plate)	0.39

Fire behaviour	Standard	Result
Fire classification	DIN EN 13501-1	E (B_{fl}-s1, available on request)

Health protection	Standard	Result
VOC	DIN EN 16516	compliant with EU-LCI list and German AgBB scheme; “A+” as per décret n°2011-321

Type of screed or base - Measurement criteria

Screeds to receive applied flexible floorings

		Maximum gap measured with a slip gauge
BS 8203.2-m Straight edge laid in contact with the screed	SR1	3mm
	SR2	5mm
	SR3	10mm

Screeds to receive toppings or in situ applied floorings

		Maximum gap measured with a slip gauge
BS 8204-1.2-m Straight edge laid in contact with the screed	SR1	3mm
	SR2	5mm
	SR3	10mm

Screeds to receive adhesive fixed rigid tile applied floorings

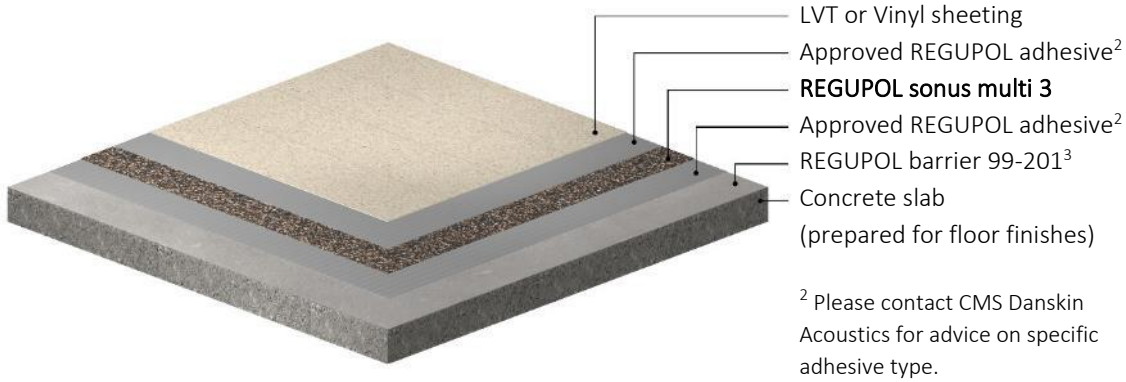
		Maximum gap measured with a slip gauge
BS 5385-3.2-m Straight edge laid in contact with the screed	SR1	3mm
	SR2	5mm
	SR3	10mm

Screeds to receive timber flooring

		Maximum gap measured with a slip gauge
BS 8201 Localised variations in level should not exceed +/- 3mm from the mean when measured over a 2m-distance using a straight edge	SR1	3mm
	SR2	5mm
	SR3	10mm

Floor assembly example

LVT and Vinyl sheeting

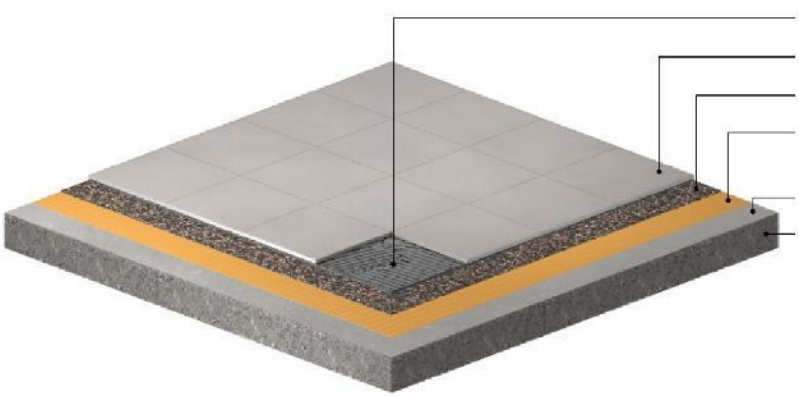


[2] Please contact CMS Danskin Acoustics for advice on specific adhesive type.

[3] If moisture exceeds required levels

Important note: When using furnishings with high point loads, we recommend the use of load spreading furniture cups.

Floor assembly example
Tiled finishes



Tile adhesive[2]
Tiles and grout
REGUPOL sonus multi 3
Approved REGUPOL adhesive[2]
REGUPOL barrier 99-201[3]
Concrete slab
(prepared for floor finishes)

[2] Please contact CMS Danskin Acoustics for advice on specific adhesive type.

[3] If moisture exceeds required levels

Floor assembly example
Engineered wood

Engineered timber flooring
Approved REGUPOL adhesive[2]
REGUPOL sonus multi 3
Approved REGUPOL adhesive[2]
REGUPOL barrier 99-201[3]
Concrete slab
(prepared for floor finishes)

[2] Please contact CMS Danskin Acoustics for advice on specific adhesive type.

[3] If moisture exceeds required levels

Floor assembly example
Laminate flooring

Laminate flooring
REGUPOL sonus multi 3
Approved REGUPOL adhesive[2]
REGUPOL barrier 99-201[3]
Concrete slab
(prepared for floor finishes)

[2] Please contact CMS Danskin Acoustics for advice on specific adhesive type.

[3] If moisture exceeds required levels.

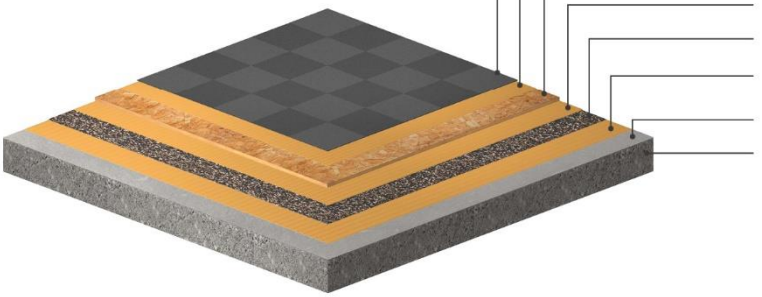
Floor assembly example
Carpet

Carpet
Approved REGUPOL adhesive[2]
REGUPOL sonus multi 3
Approved REGUPOL adhesive[2]
REGUPOL barrier 99-201[3]
Concrete slab
(prepared for floor finishes)

[2] Please contact CMS Danskin Acoustics for advice on specific adhesive type.

[3] If moisture exceeds required levels

Floor assembly
Carpet Tiles



Carpet Tiles
Adhesive (CT manufacturers)
Plywood*
Approved REGUPOL adhesive[2]
REGUPOL sonus multi 3
Approved REGUPOL adhesive[2]
REGUPOL barrier 99-201[3]
Concrete slab
(prepared for floor finishes)

[2] Please contact CMS Danskin Acoustics for advice on specific adhesive type.
[3] If moisture exceeds required levels

Installation
Full installation guidelines are available on request. However, key points to observe are:
• Area of installation must be dry, dirt and dust free and weather tight.
If over 75% RH, use **REGUPOL barrier 99-201**. To determine RH, please use a Hygrometer.
• **REGUPOL sonus multi** 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. A self-levelling compound may be required to achieve the desired 'SR' value.
• **REGUPOL sonus multi** acoustic underlays can be easily installed providing the CMS Danskin Acoustics installation guidelines are followed at all times.
• When bonding to bare concrete a suitable concrete sealer is recommended to ensure maximum adhesive coverage and bond strength.
• When installing timber flooring over **REGUPOL sonus multi** always use a flanking band around the perimeter to reduce impact transmissions into walls.
• When installing ceramic tiles, stone and vinyl flooring leave at least a 3mm gap around the perimeter which should be filled with a flexible sealant.

Storage
REGUPOL sonus multi must be stored indoors. At no time must the **REGUPOL sonus multi** be exposed to the elements of the weather. **REGUPOL sonus multi** must always be kept dry, otherwise moisture will build up in the material and will subsequently make bonding to the subfloor very difficult. Moisture will also cause the material to curl and ripple at the edges once unrolled.
It is recommended that the polythene packaging be removed in the area where it shall be applied.

Note:
For timber-based constructions please contact CMS Danskin Acoustics for technical guidance and advice.