CMSDANSKIN ACOUSTICS

REGUPOL

TECHNICAL DATA
REGUPOL SONUS MULTI 530

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 530 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

Certification

- Manufacturer EPD available upon request.

Features and Benefits

- Recommended for Vinyl sheeting, LVT and tiled floor finishes including ceramic, granite, stone and marble tiles. Compliant to CoR for light duty applications such as domestic dwelling floors. *
- 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
- Rolls supplied without cardboard cores
- Manufactured using post-consumer recycled materials. ***Material Content:*** *@ 90% Recyclate @ 10% PU binder ref: EPD-REG-20230194-IBC1-EN as per ISO 14025 and EN 15804+A2*
- 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 (†Approximate Values)		
Roll width	1150mm	
Roll length	20m	
Material thickness	3mm	
Weight per roll / per m²	†34.5kg	†1.5kg/m²
Material composition	PUR foam	

*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
Under vinyl planks:			
2.5mm vinyl planks (LVT), **REGUPOL sonus multi 530**, 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	ΔL_w 18 dB	Test report 0018.25
3.8mm Click vinyl planks (LVT), (non-bonded), **REGUPOL sonus multi 530** 140mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	ΔL_w 22 dB	Test report 0017.25
Under sheet vinyl:			
2mm sheet vinyl, **REGUPOL sonus multi 530**, 140mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	ΔL_w 18 dB	Test report 0019.25
Under laminate:			
7mm laminate flooring (non-bonded), **REGUPOL sonus multi 530**, 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	ΔL_w 19 dB	Test report 0020.25
Under engineered timber:			
10.5mm engineered timber, **REGUPOL sonus multi 530**, 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	ΔL_w 19 dB	Test report 0021.25
Under carpet:			
5mm carpet tiles **REGUPOL sonus multi 530**, 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	ΔL_w 22 dB	Test report 0022.25
13mm roll carpet **REGUPOL sonus multi 530**, 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	ΔL_w 28 dB	Test report 0023.25

Material properties	Standard	Result
Density		approx. 470kg/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		λ = 0.086 W/(mK)
Thermal resistance	EN 12664:2001	R = 0.038 (m²K)/W
Temperature resistance		-20 to +60° C

Fire behaviour	Standard	Result
Fire classification	DIN EN 13501-1	E

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

Floor assembly example
LVT and Vinyl sheeting

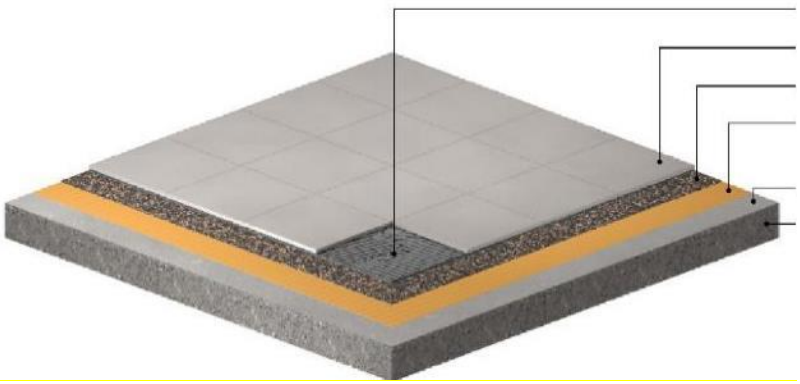
LVT or Vinyl sheeting
Approved REGUPOL adhesive[2]
REGUPOL sonus multi 530
Approved REGUPOL adhesive[2]
REGUPOL barrier 99-201[3]
Concrete slab
(prepared for floor finishes)

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

[3] If moisture exceeds required levels

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 530
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 530
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 530
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 530
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 always followed.

• 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.

Important Notes:

1. All rolls supplied without cardboard cores.
2. Due to the nature of one of the raw materials, when exposed to UV can discolour but, this has no detriment to the physical or technical properties of the product.