

## TECHNICAL DATA

# REGUPOL SONUS MULTI 4.5

formerly REGUPOL 4515



### Product

Impact sound insulating underlayment for various floor structures under timber flooring, ceramic tiles, vinyl flooring and other floor coverings.

### Material

Polyurethane foam and cork elastomers

### Weight

2.1 kg/m<sup>2</sup>

### Dimensions

Length: 20,000 mm, Width: 1,000 mm, Thickness: 4.5 mm



### Applications

Under timber flooring, multilayer modular flooring, ceramic or porcelain tiles and carpet tiles for both residential and commercial use

### Certification

German National Technical Approval Z-158.10-6

Acoustical Performance*	Standard	Result	Comment
Under timber flooring:			
8 mm laminate flooring (non-bonded), <b>REGUPOL sonus multi 4.5</b> (non-bonded), 150 mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 2006 (E) ISO 140-6-2006 ASTM E989-89	$\Delta L_w$ 19 dB $L_{n,w}$ 60 dB  IIC 50	Test report RG088 – INR216-09-1
14 mm engineered timber (non-bonded), <b>REGUPOL sonus multi 4.5</b> , (non-bonded), 150 mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 2006 (E) ISO 140-6-2006 ASTM E989-89	$\Delta L_w$ 17 dB $L_{n,w}$ 60 dB  IIC 50	Test report RG086 – INR210-06-01
Under ceramic tiles:			
8 mm ceramic tile, 30 mm screed bed, <b>REGUPOL sonus multi 4.5</b> , 150 mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 2006 (E) ISO 140-6-2006 ASTM E989-89	$\Delta L_w$ 19 dB $L_{n,w}$ 60 dB  IIC 50	Test report RG094 – INR216-03-01
Under porcelain tiles:			
10 mm porcelain tiles, <b>REGUPOL sonus multi 4.5</b> , 150 mm concrete slab	AS ISO 717.2-2004 ISO 140-8:1997 (E) ISO 140-6 ASTM E989-89	$\Delta L_w$ 17 dB $L_{n,w}$ 61 dB  IIC 49	Test report RG019 – INR153 Test Floor (b)

\*Assembly from top to bottom

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Material properties	Standard	Result
Compressive stress-strain characteristic at 25% compression (CC25)	DIN EN ISO 3386-2	> 1450 kPa
Elongation at break	DIN EN ISO 1798	≥ 25 %
Tensile strength	DIN EN ISO 1798	≥ 0.7 N/mm <sup>2</sup>

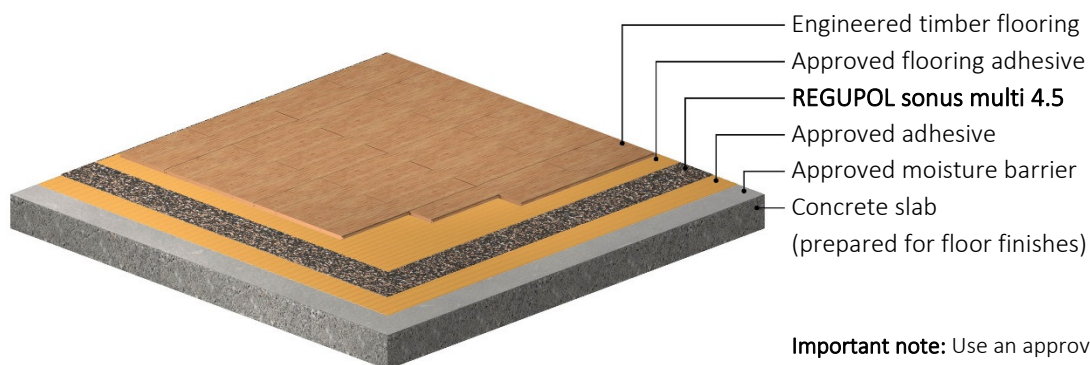
Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	$\lambda = 0.06 \text{ W/(mK)}$
Thermal resistance	DIN EN 12667	$R = 0.075 \text{ (m}^2\text{K)/W}$
Temperature resistance		-20 to +60° C

Fire behaviour	Standard	Result
Fire classification	DIN EN 13501-1	E (B <sub>fl</sub> -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

### Floor assembly example

Engineered timber – Fully bonded



**Important note:** Use an approved moisture barrier if moisture exceeds the required levels.

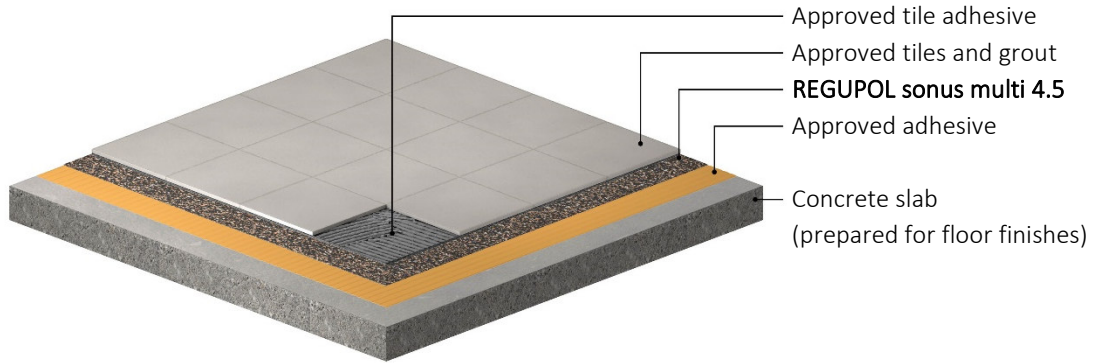
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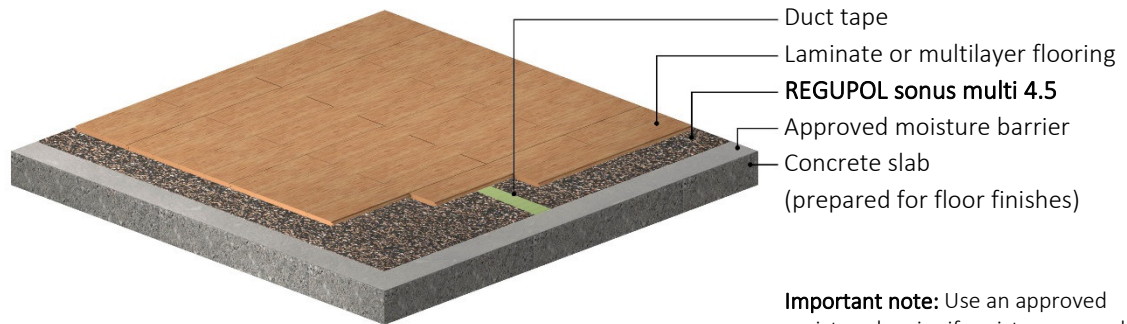
### Floor assembly example

Ceramic and porcelain tiles



### Floor assembly example

Non-bonded laminate or multilayer modular flooring



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For more assemblies and test reports, please visit [www.regupol.com](http://www.regupol.com)