

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/m²

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), REGUPOL sonus multi 4.5 (non-bonded), 150 mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 2006 (E) ISO 140-6-2006 ASTM E989-89	ΔL_w 19 dB $L_{n,w}$ 60 dB IIC 50	Test report RG088 – INR216-09-1
14 mm engineered timber (non-bonded), REGUPOL sonus multi 4.5 , (non-bonded), 150 mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 2006 (E) ISO 140-6-2006 ASTM E989-89	ΔL_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, REGUPOL sonus multi 4.5 , 150 mm concrete slab	AS ISO 717.2-2004 ISO 140-8: 2006 (E) ISO 140-6-2006 ASTM E989-89	ΔL_w 19 dB $L_{n,w}$ 60 dB IIC 50	Test report RG094 – INR216-03-01
Under porcelain tiles:			
10 mm porcelain tiles, REGUPOL sonus multi 4.5 , 150 mm concrete slab	AS ISO 717.2-2004 ISO 140-8:1997 (E) ISO 140-6 ASTM E989-89	ΔL_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 ²

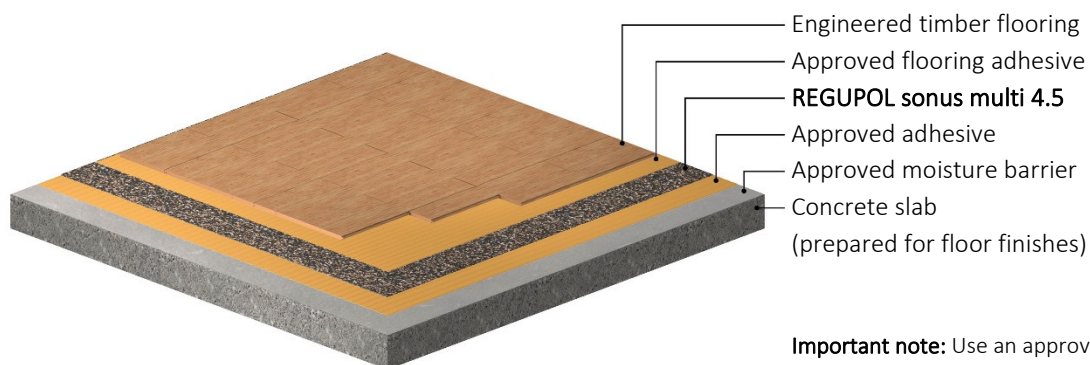
Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	$\lambda = 0.06 \text{ W/(mK)}$
Thermal resistance	DIN EN 12667	$R = 0.075 \text{ (m}^2\text{K)/W}$
Temperature resistance		-20 to +60° C

Fire behaviour	Standard	Result
Fire classification	DIN EN 13501-1	E (B _{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

Floor assembly example

Engineered timber – Fully bonded



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

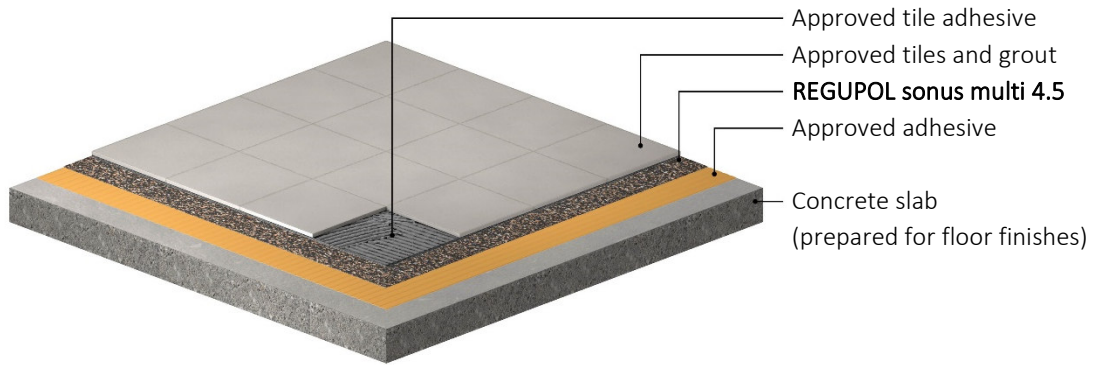
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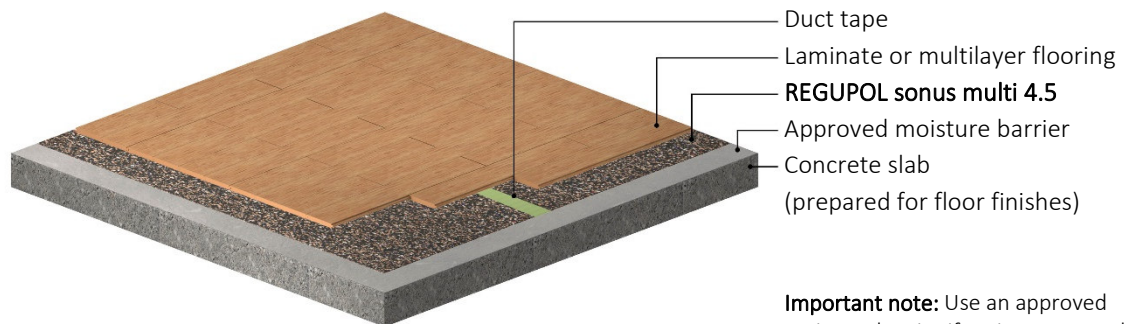
Floor assembly example

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