

Regupol®

## Impact Sound Insulation

Durable,  
low structural  
height, low in  
emissions.



## Versatile Resilient Underlays for Every Floor Covering

**Regupol® Impact Sound Insulation** has been providing undisturbed living and working environments for a long time – **Regupol® Impact Sound Insulation** from BSW is far more effective than stated in the standard. For many years, **Regupol®** has been the preferred material for countless project engineers, acoustic engineers, providers and architects.

Whether new buildings or refurbishments, whether in commercial or privately used buildings – **Regupol® Impact Sound Insulation** is easy to install, offers a low structural height (2–6 mm), is resilient and durable. It does not matter which final layer is installed on top of **Regupol® Impact Insulation Mats**. Sounds at the surface in the frequency range between 500–2,000 Hz are reduced, for example under laminate by 25%.

**Regupol® Impact Sound Insulation** increases walking and living comfort and reduces sound transmissions and premature wear to the floor covering by shock and impact. When used under soft floor covering such as PVC or carpet, **Regupol® Impact Sound Insulation** improves the resilience of floor covering and helps to prevent areal soling in areas subject to heavy use the formation of worn pathways. This makes **Regupol® Impact Sound Insulation** an ideal versatile combination of both impact sound and thermal insulation, whilst increasing the walking comfort. **Regupol® Impact Sound Insulation** protects both floor covering and sub-base.

### Custom-Specific Development and Production

Customised individual production, custom-designed finishing, and demand-g geared storage ensure short delivery periods as well as flexibility for special solutions. Special qualities are also possible for corresponding order volumes. The **Regupol® Impact Sound Insulation Mats** presented here are only a small selection from the wide range of possibilities from BSW to find exactly the solution for you. Numerous material combinations and delivery formats can be implemented in direct one-on-one consultations with the customer.

### The Benefits

- easy to install, easy to cut
- low structural height
- excellent walking comfort
- resistant to castors according to DIN 68131
- suitable for underfloor heating
- thermal insulation properties
- permanently elastic
- resistant to aging
- practical dimensions
- very low in emissions
- water-vapour-resistant, breathable
- completely recyclable
- cleaning-resistant: cleaning of textile floor covering does not affect the impact sound insulation layer
- also suitable as non-slip underlay for loose carpets

Customised manufacture of products for Impact Sound Insulation made of Regupol®. See page 165.

Customer  
Solutions  
Center

## Technical Data

Regupol®	K225	4515	3912	8010
Material Base	cork/rubber/PUR	cork/PUR	PUR	rubber/PUR
Delivery Format	rolls			
Length	any desired			
Thickness	2–6 mm	3–6 mm	3–6 mm	3–6 mm
Specific Weight	approx. 470 kg/m <sup>3</sup>	approx. 420 kg/m <sup>3</sup>	approx. 370 kg/m <sup>3</sup>	approx. 700 kg/m <sup>3</sup>
Tensile Strength	approx. 0.6 N/mm <sup>2</sup>	approx. 0.7 N/mm <sup>2</sup>	approx. 0.4 N/mm <sup>2</sup>	approx. 0.6 N/mm <sup>2</sup>
Elongation at Break	approx. 18%	approx. 25%	approx. 55%	approx. 55%
Temperature Stability	approx. –40 to +110 °C			
Thermal Conductivity	approx. 0.12 W/mK			
Thermal Resistance (DIN 52612)	3 mm: 1/λ = 0.025 K/W; 5 mm: 1/λ = 0.041 K/W			
Reaction to Fire according to DIN 4102	B2, B1 (special finish possible)		B2	B2
Impact Sound Insulation	3 mm: approx. 18 dB, 5 mm: approx. 20 dB together with 2 mm PVC (up to approx. 24 dB with corresponding material thickness and choice of suitable floor covering)			

## Regupol® K225

**Regupol® K225** consists of PUR-bonded rubber granules and cork elements. **Regupol® K225** is castor-proof according to DIN 6813 and suitable for underfloor heating systems. While maintaining its original thickness, K 225 will remain permanently elastic and non-perishable for decades. **Regupol® K225** can be 100% recycled. **Regupol® K225** is suitable for all conventional subfloor and floor covering. Its special consistency allows a minimum thickness of only 2 mm.



## Regupol® 4515

**Regupol® 4515** was mainly developed for laying under PVC. Due to its special material composition it prevents plasticiser migration. **Regupol® 4515** consists of PUR-bonded cork and PUR foam. This means there is no need to use filling as a boundary to the subfloor. Other characteristics are similar to those of **Regupol® K225**.





## Regupol® 3912

**Regupol® 3912** consists of PUR-bonded PUR foam. Its relative light weight and soft consistency make it suitable for installations under textile floor covering. It goes without saying that **Regupol® 3912** can also be installed under all other floor covering. **Regupol® 3912** is durable and age-resistant, castor-proof and suitable for underfloor heating.



## Regupol® 8010

**Regupol® 8010** consists of PUR-bonded rubber granules only. **Regupol® 8010** has proven highly effective under laminate reducing the sound indoors. **Regupol® 8010** is durable and age-resistant, castor-proof and suitable for underfloor heating.



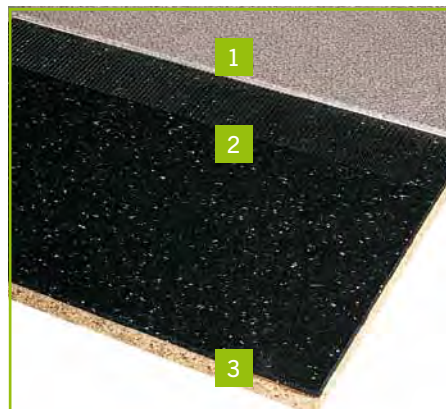
## Floor Composition with Regupol® Impact Sound Insulation

Screed/Parquet, Laminate, Real Wood Flooring



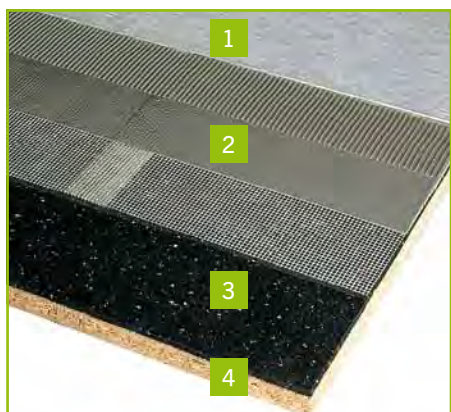
- 1 Finished parquet or laminate
- 2 **Regupol® Impact Sound Insulation Mat**
- 3 Screed or other subfloor

Screed/Carpet



- 1 Carpet
- 2 **Regupol® Impact Sound Insulation Mat**
- 3 Screed or other subfloor

Screed/PVC or CV



- 1 PVC carpet
- 2 Filler (not for **Regupol® 4515**)
- 3 **Regupol® Impact Sound Insulation**
- 4 Screed or other subfloor

Wooden Floorboard/Carpet



- 1 Carpet
- 2 **Regupol® Impact Sound Insulation Mat**
- 3 Layer of filler
- 4 (old) wooden floorboard

**Regupol® Impact Sound Insulation** can be easily installed with commercially available glues. It is usually placed under finished parquet or laminate. Unevenness must be levelled.



Burj Khalifa, Dubai: just one example of buildings fitted with **Regupol®** Impact Sound Insulation. There are high demands everywhere - **Regupol®** Impact Sound Insulation is always a good solution.



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