

Frequently Asked Questions

4515 Acoustic Underlay

Regupol®

Q. Why do I need to use a (Regupol 4515) Impact Sound Acoustic Underlay?

A. Because it is an inter-tenancy requirement of the New Zealand Building Code (NZBC)

Q. Which part of the NZBC does this requirement come under?

A. G6: Airborne and Impact Sound.

Q. What is Impact Sound ?

A. Impact Sound is sound energy (noise) traveling through a floor caused by such things as footsteps, dropped items, etc.

Q. What does Regupol 4515 Impact Sound Insulation do?

A. In combination with other products that make up the floor and ceiling, Regupol 4515 contributes to the reduction of the sound transfer passing through the floor and the ceiling below.

Q. I see the initials db, IIC and FIIC referred to when reading about sound reduction, what do these mean ?

A. **db** is a measurement of sound levels. Example: A pneumatic drill gives a sound around 130 db and conversational speech around 70 db.

IIC (Impact Insulation Class) is a method for determining the transmission loss of impact sound through a floor. Usually the results found in a sound laboratory test.

FIIC (Field Impact Isolation Class) is similar to IIC but usually the results are found in actual on site field tests.

Q. What sound insulation performance does the NZBC require for intertenancy Buildings?

A. Under G6.3.2 the IIC requirement shall be no less than 55. FIIC shall be within 5db of the (55) performance requirements.

Q. Will Regupol 4515 meet these requirements?

A. It is very important to understand that Regupol 4515 is only a part of the overall sound insulation system .The insulation capabilities of the Regupol 4515, when combined with the individual insulation capabilities of, say, the concrete floor, the cavity insulation, the ceiling insulation etc., should attain the overall IIC or FIIC requirement.

Q. What does Regupol 4515 offer as a db sound insulation?

A. Subject to various substrates and the combinations thereof an indicative figure of 17 db can be used. But at all times, it is recommended an early on site sound test should be done to determine what resulting insulation figure has/will be attained.

Q. What is Regupol 4515 made of?

A. Regupol 4515 is made from selected polyurethane foam granulates and cork, bound together with polyurethane.

Q. In what type of format does Regupol 4515 come?

A. Regupol 4515 comes in 1mt wide rolls x 20 Lm in length x 4.5mm thickness. A roll weighs approx 39.2 kg

Q. Can Regupol be used with underfloor heating?

A. Yes.

Q. Can Regupol 4515 be used in wet areas both externally and internally?

A. Yes, the importance here is that specialized adhesives are used.

Q. Can Regupol 4515 be loose laid over the substrate when covered with timber flooring and/or tiles?

A. It is recommended at all times that Regupol 4515 be adhered to the substrate



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Q. Is Regupol Fire Resistant ?

A. Regupol meets the Fire Resistance standard Class B. DIN 4102

Q. What flooring products can Regupol 4515 be used with ?

A. Regupol 4515 can be used with most flooring products such as timber, ceramic tiles, stone, vinyl, laminate and carpet.

Q. Can Regupol 4515 be used under floating timber floors ?

A. It is recommended that engineered timber floors be adhered to the Regupol 4515. The 4515 Regupol to timber adhesive should be spread over the whole floor with a 2.4 mm V notched trowel. The application of the timber adhesive in S format is unacceptable as this will create voids under the timber to the detriment of the sound proofing objective.



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