

DECIDAMP® SLC

viscoelastic self-levelling vibration damping compound for underlayment

Decidamp® SLC is a two-component, polyurethane-based, vibration-damping compound used in flooring applications. It was developed to meet market requirements to reduce structural noise and vibration in the marine and offshore industries.

Viscoelastic, lightweight and predominantly used as a primary deck layer or a sub-layer to a variety of floor coverings. Inherent self-levelling properties are highly suited to levelling uneven floor surfaces e.g. warped metal plates, or providing a seamless flat working surface.

Decidamp® SLC can be applied from relatively thin layers up to the required thickness to treat the surface. It's unique properties reduce structural vibration in flooring applications when installed as a constrained layer between two rigid surfaces. When used between a steel or aluminium deck and any non-combustible cementitious screed, it performs like a constrained layer damper and significantly enhances the acoustic properties. It isolates and insulates floor coverings, thereby reducing noise transfer from airborne and structural vibration, footfall or impact noise to noise-sensitive areas under decks.

SPECIFICATIONS

Colour	Beige (standard) Other colours available based on minimum order quantities
Packaging	Available in 25 kg pack consisting of Part A and Part B



applications

IDEAL FOR

- Marine: on decks, as a constrained layer system to reduce vibration noise and structure borne noise
- Underlay for floor coverings
- Reduce impact noise in flooring applications
- Highly suited for levelling uneven surfaces e.g. warped metal plates. where a seamless flat working surface is required

features

- Tested to International marine fire standards
- Excellent acoustic and vibration damping properties
- Easy-flow, self-levelling formula
- Excellent adhesion to metal, aluminium and glass composites substrates
- Solvent-free
- Reduces vibrational structural wear/tear
- Suitable for outdoor exposure
- Excellent flame resistance, ignition retardant
- Broad temperature and frequency range
- Low-weight, viscoelastic
- High build rate, fast application
- Cures without shrinking or cracking; independent of application



PRODUCT SPECIFICATIONS

Standard product	Pack size
Decidamp SLC	Part A 19.6 kg
Decidamp SLC	Part B 3.9 kg

APPLICATION PROPERTIES

Material	Recommended application temp range	Pot life at 25°C (min)	Consumption	Mixed density g/cm ³	Mix ratio A:B w/w
Decidamp SLC (Mixed)	10 to +35°C	20-30	1.10 kg/m ² /mm	1.10	5:1

MATERIAL PROPERTIES

Test method	Property	Report no.	Results
UL94	Horizontal burn test for foam materials.	-	HBF
*IMO FTP Code Annex 1 Part 5+6 and Part 2	Surface flammability of bulkhead, wall, ceiling, floor covering. Additionally, smoke generation and toxicity requirements of IMO FTP Code.	(Report No. 337240)	Complies
Design certification (MED B)* and quality audit (MED D)	EC Type Certification to Marine Equipment Directive or "Wheelmark"	Report No. 164.106/1121/WCL MED0417TE)	Complies USCG type approval granted
*DNV-GL Type approval & transportation Canada type approval to requirements of TP 14612	Transportation Canada & DNV-GL type approval	Report no F-21137)	Complies for Offshore standards, SOLAS and recognised by Transport Canada

* When tested in conjunction with cementitious layer such as Weber.floor 4660. (Refer Information page 'Weber.Floor4660' on our website, for more information on cementitious compound for secondary layer)

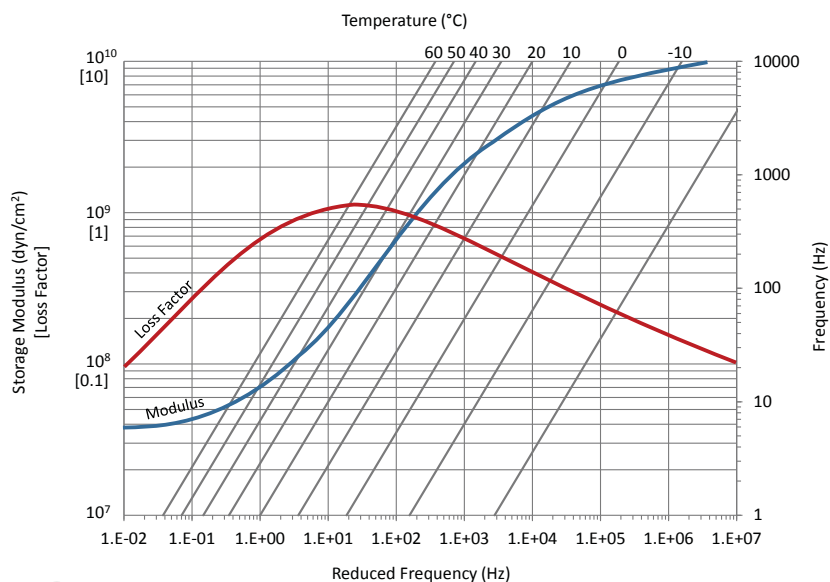
CURE TIME

Once the two components are mixed, setting will start within 30 mins at 25°C and 35% humidity.
High temperatures and humidity can accelerate the set time.
Full cure is achieved in 24 hours. Treated floor is hardened and open to foot traffic in 10 hours.

STORAGE

Store between 10°C - 45°C. Shelf Life is 24 months from receiving goods.

ACOUSTIC PERFORMANCE



Tested to ISO 6721-5:1996
Report Number: 12716AR5

How to read a reduced frequency nomogram:

1. Start by selecting the frequency (Hz) on the right-hand vertical axis.
2. Follow this value horizontally to the left to where the diagonal temperature isotherm intersects.
3. Draw a vertical line through the frequency and isotherm intersection, find the point where this line intersects the modulus and loss factor curves.
4. Draw horizontal lines from these points to the left-hand vertical axis to read the values.

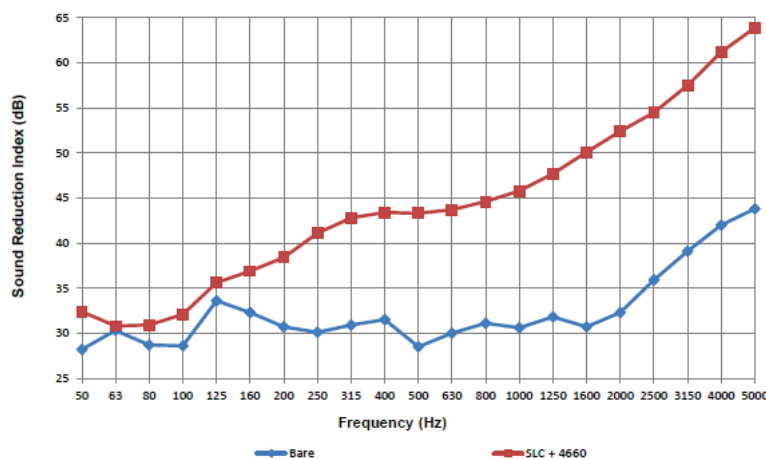


SYSTEM ACOUSTIC PERFORMANCE

Frequency (Hz)	Decidamp SLC +4660
50	32.4
63	30.8
80	30.9
100	32.1
125	35.6
160	36.9
200	38.4
250	41.1
315	42.8
400	43.4
500	43.3
630	43.7
800	44.6
1000	45.8
1250	47.7
1600	50.1
2000	52.4
2500	54.5
3150	57.5
4000	61.2
5000	63.9
STC	48
R _w	48
C	-1
Ctr	-4

Report Number: 15,4165
Measured in accordance with ISO 10140-2. This data represents the sound insulation of the deck system and is used for evaluating the noise reduction between adjoining spaces.

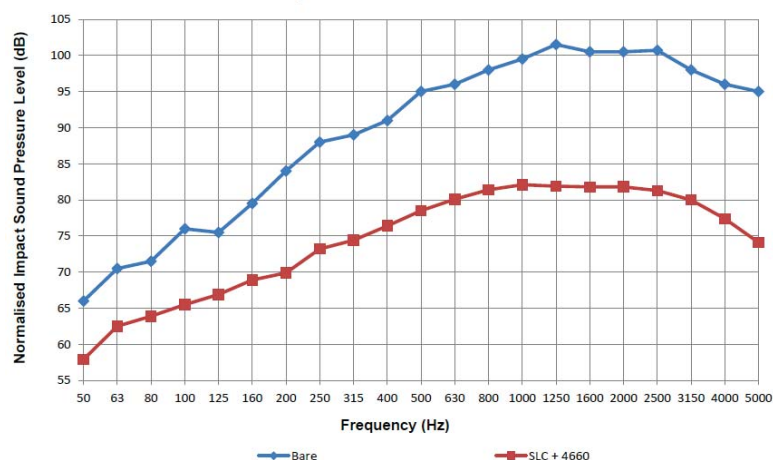
Airborne Sound Insulation



Frequency (Hz)	Decidamp SLC +4660
50	57.9
63	62.5
80	63.9
100	65.5
125	66.9
160	68.9
200	69.9
250	73.2
315	74.4
400	76.4
500	78.5
630	80.1
800	81.4
1000	82.1
1250	81.9
1600	81.8
2000	81.8
2500	81.3
3150	80.0
4000	77.4
5000	74.1
Ln,w	87
CI	-11
dLm	19
Ctr	-4

Report Number: 15,4165
Measured in accordance with ISO 10140-3. This data represents the impact sound pressure level in a reverberant room below the deck system and is used for evaluating the reduction of noise from walking or other human activities.

Impact Sound Insulation



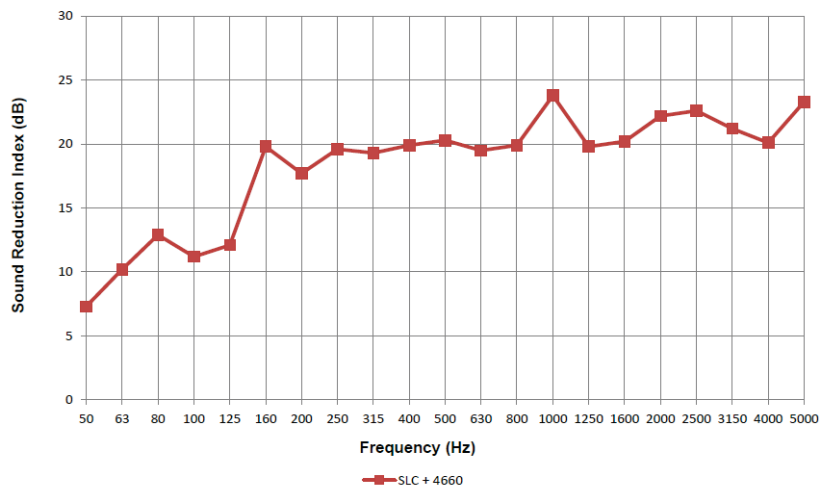
SYSTEM ACOUSTIC PERFORMANCE

Frequency (Hz)	Decidamp SLC +4660
50	7.3
63	10.2
80	12.9
100	11.2
125	12.1
160	19.8
200	17.7
250	19.6
315	19.3
400	19.9
500	20.3
630	19.5
800	19.9
1000	23.8
1250	19.8
1600	20.2
2000	22.2
2500	22.6
3150	21.2
4000	20.1
5000	23.3
STC	48
R _w	48
C	-1
Ctr	-4

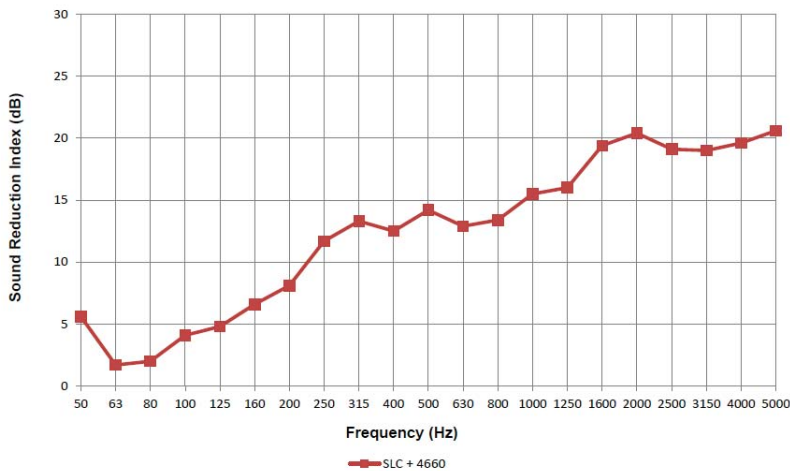
Report Number: 15.4165

This data describes the difference between the velocity level measured on the bare steel deck before the installation of the floor covering, and the velocity level measured after on top of the applied system. The insertion loss values are used for evaluating the reduction of the structure-borne velocity level as a result of the floor covering

Velocity Insertion Loss



Sound Pressure Insertion Loss



Frequency (Hz)	Decidamp SLC +4660
50	5.6
63	1.7
80	2.0
100	4.1
125	4.8
160	6.6
200	8.1
250	11.7
315	13.3
400	12.5
500	14.2
630	12.9
800	13.4
1000	15.5
1250	16.0
1600	19.4
2000	20.4
2500	19.1
3150	19.0
4000	19.6
5000	20.6

Report Number: 15,4165

This data represents the difference between the sound pressure level measured in the receiving room before installation of the floor covering and the sound pressure level measured after applying the floor covering. The insertion loss values are used for evaluating the reduction of the structure-borne sound pressure level caused by the floor covering.

For further information and contact details, please visit our website pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyroteknc.com/disclaimer.

