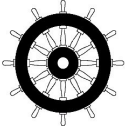




Water Based Vibration Damping Compound



0575



Soundpaint® SP150 is a fast drying, water based viscoelastic vibration damping compound. The unique formulation outperforms other similar compounds. The exceptional vibration damping properties are complemented by ease of use and low combustibility (dry film).

Being a thixotropic paste, it's specially designed for trowel, brush, roll-on and air-gun spray applications. Once dry, the cured film is UV, water and chip resistant.

Tested to IMO A653-16, **Soundpaint SP150** carries EC Type Certification (MED B and D) and has achieved a **Class 0** based on BS 476.6 and BS 476.7 results. **Class 0** being the highest fire standard required by the British building code.

Unlike most damping materials, **Soundpaint SP150** is a low-density product. The dry film is light in weight without compromising high damping performance. Consequently, this material is recommended for weight sensitive applications, e.g. marine and automotive applications.

Vibration is absorbed by combining viscous, (energy dissipation) and elastic, (energy storage) characteristics. Vibration energy is absorbed within the material and converted to heat.

Soundpaint SP150 effectively reduces resonant vibration. Increased transmission loss is due to the reduction of panel coincidence and panel resonance effects.

FEATURES

- Non-sag formulation
- Excellent adhesion, even to aluminium
- Cures to a hard chip resistant finish
- Non toxic
- Ignition retardant
- Broad temperature and frequency range
- Sprayable – four recommended spray systems available (refer Soundpaint Installation Guide 103-11G)
- Can be painted or gel coated over, once cured

APPLICATIONS

- Boat hulls, ceilings, decks and bulkheads
- Machinery and equipment enclosures
- Automotive
- Machinery guards
- Stainless steel fabrications e.g. sinks, bowls
- Dishwashers
- Hospital equipment
- Metal deck roof and metal wall cladding
- Whitegoods
- Truck or bus underbodies
- Heavy earthmoving equipment
- Metal floors

BENEFITS

- Tested to International marine fire standards
- Water based, easy application and clean up
- Reduces resonant vibration
- Minimum weight for maximum performance
- Excellent flame resistance
- Easy to install
- Suitable for outdoor exposure
- Eliminates tinniness and ringing
- Increases panel transmission loss
- Ideal for weight sensitive applications
- Extensional damping

COLOURS

- Grey (standard)
- Other colours available based on minimum order quantities

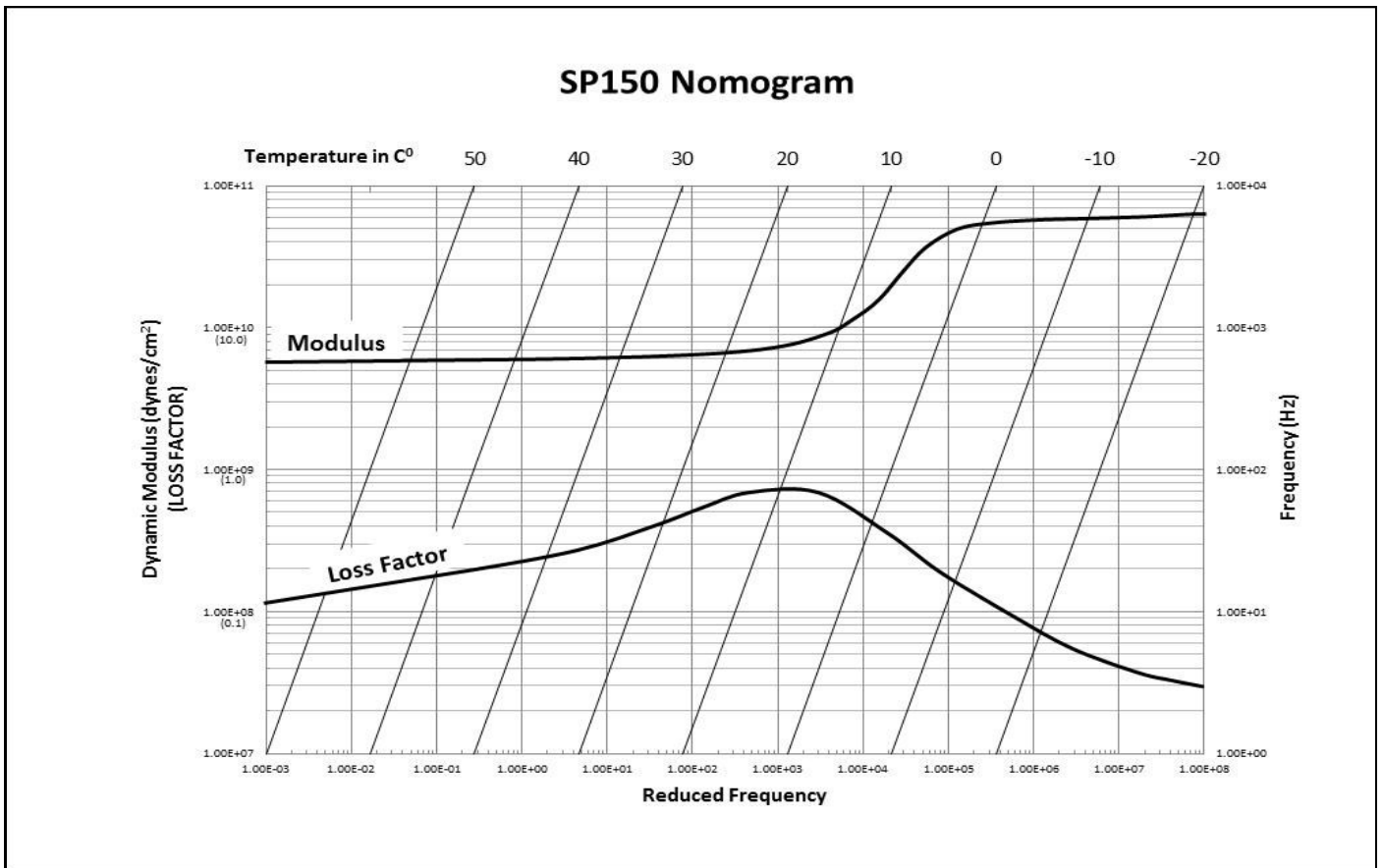
SPECIFICATIONS

- Available in 20 kg and 300 kg drums

ACOUSTIC PERFORMANCE

(Tested to ISO 6721-3:1994)

Temperature (°C)	System Loss Factor					
	Steel		Aluminium		FRP	
	Application ratio 1:2	Application ratio 1:1	Application ratio 1:2	Application ratio 1:1	Application ratio 1:2	Application ratio 1:1
-20	0.03	0.01	0.05	0.03	0.08	0.04
-15	0.04	0.02	0.07	0.04	0.11	0.05
-10	0.06	0.03	0.12	0.06	0.18	0.09
-5	0.08	0.04	0.17	0.08	0.25	0.13
0	0.12	0.06	0.25	0.12	0.37	0.19
5	0.20	0.10	0.41	0.20	0.61	0.31
10	0.26	0.13	0.52	0.26	0.78	0.39
15	0.25	0.13	0.51	0.25	0.76	0.38
20	0.18	0.09	0.37	0.18	0.55	0.28
25	0.14	0.07	0.27	0.14	0.41	0.20
30	0.09	0.04	0.17	0.09	0.26	0.13
35	0.07	0.04	0.14	0.07	0.21	0.11
40	0.06	0.03	0.12	0.06	0.18	0.09
45	0.06	0.03	0.11	0.06	0.17	0.08
50	0.04	0.02	0.08	0.04	0.12	0.06
55	0.03	0.02	0.06	0.03	0.09	0.05
60	0.02	0.01	0.05	0.02	0.07	0.04
Maximum Estimated Noise Reduction on the large panel (dB)	24	21	27	24	29	26



Test report number. 15812-MK1

FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
IMO Resolution A653 -16 Annex 1 Part 5 (Report No. FNO107)	CFE = Critical flux at extinguishment Qsb = Heat of sustained burning Qt = Total heat release Qp = Peak heat release rate	31.7 13.2 0.2 0.8 Meets all low flame spread requirements for bulkhead, wall, ceiling & floor coverings	Surface flammability of bulkhead, wall, ceiling, floor covering. Amended by resolution MSC 61(67) annex 1, part 5.
EC Type Examination Certificate Module B (MED B) + Module D (MED D) (Certificate No. 164.112/1121/WCL MED 0296TE; MED-D-1639)	-	Complies. USCG type approval granted	WHEELMARK
DIN 5510-2 (Certificate No. 2012-1602)	S1 to S5 Not awarded, SR1, SR2 ST1 or ST2	S4 SR2 ST2	Flammability Class Smoke Development Class Dripping Class
BS 476 Part 6: 1989+A1:2009 (Report No. 185741)	Fire Propagation Index, I Sub Index i1 Sub Index i2 Sub Index i3	3.0 0.2 2.6 0.2	Fire propagation.
BS476 Part 7:1997 (Report No. 185742)	Class1 Class2 Class3	Class 1	Surface spread of flame. Soundpaint SP150 meets requirements of Class 1 .
Class 0 Summary Report	UK Building Regulations	Class 0	Class 0 being the highest fire standard required by the British building code.
BS 6853:1999 Appendix D Clause D.8.4 (Report No. 186949)	Ao (ON) Ao (OFF)	6.16, Std Dev = 1.66 7.23, Std Dev = 1.79 Exterior vertical surfaces: Vehicle Cat 1b Exterior horizontal prone surfaces: Vehicle Cat 1b	Smoke Density.
BS 6853: 1999 Annex B.2 (Report No. 186245)	R value	0.14	Toxic Fume test.
UL94	-	V1*	Vertical burn test.
FMVSS-302	-	Self Extinguishing	Automotive burn rate test.

*5mm thickness tested

CHEMICAL RESISTANCE

UV	H ₂ O	PETROL	DIESEL
Excellent	V. Good	Good	Good

MATERIAL PROPERTIES

DENSITY	SERVICE TEMPERATURE RANGE (MAX SHORT TERM)
1.4 – 1.6 kg/litre (dry)	-40°C to +110°C

COATING THICKNESS (DRY FILM)

SUBSTRATE	COATING THICKNESS
Steel	≥ 1.0 x T
Aluminium	≥ 0.5 x T
FRP	≥ 0.3 x T

Storage: Store between 10°C - 45°C

Shelf Life: 12 months from receiving goods.

Note:

1. T = Substrate Thickness.
2. Can be applied up to 6mm wet film per coating session without slumping. Typically, **Soundpaint** is built up over two sessions of 3mm wet coats allowing 20-40 minutes between each application.
3. Typically, a 3mm thickness coating dries within 3-4 hours and a 6mm thickness coating dries within 24 hours, at 35°C and relative humidity of 55%. For best results, allow the compound to dry naturally as force drying may result in cracking of coat. **Soundpaint** will fully cure within 2-3 days. In humid environments, **Soundpaint** will take longer to cure. In environments greater than 70% humidity, the application rate and curing time will vary.
4. **Soundpaint SP150** and substrate temperatures need to be greater than 10°C during application.
5. To achieve a desired dry film thickness, provision for material shrinkage of up to 15% on average should be included when applying wet coating.

Caveats: Specifications are subject to change without notice. The data in this document are 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 www.pyroteknc.com/disclaimer.

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Soundpaint SP150

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noise control