



Installation of Soundpaint®

Soundpaint® is a high performance, lightweight, water based damping compound especially formulated for easy application and maximum performance.

SURFACE PREPARATION

The product is specifically formulated to provide high adhesion to difficult substrates such as uncoated aluminium, however adequate surface preparation is essential.

- Remove any dust, dirt, oil, grease, rust, mould-release agent, etc. from the surface using a suitable solvent.
- Abrading the surface by wire brushing, sandblasting or abrasive paper is recommended for highly polished surfaces.
- On steel substrates, surface priming is recommended to prevent flash rusting.

APPLICATION METHOD

Soundpaint:

- Should be thoroughly mixed before application, using a ribbon or paddle mixer as shown. The product should be mixed until it is at a smooth creamy consistency.
- If required, the viscosity of the product can be altered by the addition of 0.3% of water by weight per kg of product.
- Should be applied above ambient temperatures of 10°C
- In cold conditions, substrate can be warmed to aid drying
- Forced ventilation can be used to help coating dry. Air movement should be both in/out during drying process.
- 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.



Ribbon or Paddle Mixer

Soundpaint can be applied using the following methods:

- Air assisted and Airless spray systems (Please refer back page)
- Trowel
- Brush
- Roller

Brush:

For brush applications, we recommend the addition of 0.3% of water by weight per kg of product. This will aid in an easier and smoother application.

Use a wide 100mm thick nylon bristle brush. Keep brush well loaded with **Soundpaint** and use short strokes, applying a thick coat of approximately 2-3mm. Avoid "painting" back and forth as this will cause the coat to become too thin.

Roller:

For roller applications, we recommend the addition of 1% of water by weight per kg of product. This will aid in an easier and smoother application.

Using a short knap cloth roller, roll with short strokes, and try to avoid rolling back and forth, as this will cause the coat to become too thin. Use a light brush to "tip-off" the stipples if desired.

Spray:

Four main spray systems are available for the application of **Soundpaint**. (stated overleaf)

SPRAY SYSTEMS	PNEUMATIC PISTON PUMP (Airless)	PNEUMATIC PISTON PUMP (Air assisted)	BOTTOM ENTRY PRESSURE POT	GRACO RTX1500
Gun type	XTR-7 Airless Spray Guns	GNG/T3005 Texture Gun, Bottom Entry	GNG/T3005 Texture Gun, Bottom Entry	RTX1500 Heavy duty trigger gun
Line Pressure	380-410 bar (5500-6000 PSI)	24-30 bar (350-440 PSI)	2-4 bar (30-60 PSI)	Max. 7 bar (100PSI)
Length of hose from pump to gun	6 m + 1m whipping	15- 30 m	5 - 20 m	7.5m nominal
Diameter of hose	9.5mm (3/8") ID and 6.5mm (1/4") ID whipping	19mm ID (3/4" ID)	19mm ID (3/4" ID)	19mm ID (3/4" ID)
Diameter of nozzle	0.9 – 1.0 mm (0.035-0.039")	4mm (0.157")	4mm (0.157")	4mm (0.157")
Pump type	Ratio 60:1 piston pump	Ratio: 4:1 or greater Flow: 3 L/min 2-ball piston pump	20 litre bottom entry pressure pot	Peristaltic
Air pressure	7 bar (100 PSI)	6 - 7 bar (90 - 100 PSI)	Pressure in gun: 6 bar (85 PSI) Pressure in pot: 2-4 bar (30-60 PSI)	Air compressor included in unit

It is important to note, the above table is a guide only, on site application trials must be carried out prior to full production



Pneumatic Piston Pump



XTR-7 Airless Spray Gun



GNG/T3005 Texture Gun



Bottom Entry



RTX 1500

APPLICATION RATE AND COVERAGE

- 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.
- Wet coat coverage rate of 1.8kg/m² at 1.0mm
- Dry coat coverage is 1.5kg/m² at 1.0mm
- Dry coating thickness aluminium: $\geq 0.5 \times$ substrate thickness
- Dry coating thickness steel: $\geq 1.0 \times$ substrate thickness
- Dry coating thickness FRP: $\geq 0.3 \times$ substrate thickness



Note: To achieve a desired dry film thickness, provision for material shrinkage of up to 15% on average should be included when applying wet coating.

WET GAUGE FILM THICKNESS CHECK

- To ensure the correct film build is achieved, a wet film gauge can be used as shown.

PACKAGING & STORAGE

- Available in 20kg pails or 300kg drums.
- Shelf life : 12 months from receiving goods.
- Stored and transported between 10°C – 45°C. (Caution: Do not let the product freeze.)
- Partially used pails of product can be reused, if sealed firmly after first use.

CLEAN UP & SAFETY

- Equipment easily cleaned with water.
- Ventilation is recommended for restricted areas. Personal Protection Equipment (PPE) including eye protection, gloves and safety clothing are also recommended.

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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