



Specialty Powdercoating Pty Ltd

[Pakenham, Victoria]

Staged Blast Room Upgrade Improves Recovery and Efficiency

PERFORMANCE 3

A Performance 3 Discovery Assessment identified a practical staged upgrade path.



BACKGROUND

Specialty Powdercoating Pty Ltd is a powder coating and surface preparation operation based in Pakenham, Victoria. The company operates a blast room using garnet abrasive to prepare new steel, achieving a consistent SA 2 to 2.5 class finish with an average 75-micron profile. The team wanted to improve blast room performance without disrupting daily operations and needed a practical upgrade path that could be completed in stages.

PERFORMANCE 3 ASSESSMENT FINDINGS

A BlastOne Performance 3 Discovery Assessment found the blast room was operating at approximately 75% of industry benchmark. The assessment reviewed key performance factors including nozzle pressure, abrasive recovery, equipment layout, breathing air setup, and maintenance requirements.

The inspection identified several opportunities to improve performance, including productivity losses from nozzle pressure, limited abrasive recovery, space constraints, and maintenance needs around breathing air and pressure vessel inspections. With blasting equipment located inside the booth, Specialty Powdercoating needed a staged plan that could improve efficiency now while preparing the room for future dust extraction and infrastructure upgrades.

25%

Improvement Opportunity

[The Performance 3 Discovery Assessment found the blast room was operating at approximately 75% of industry benchmark performance, identifying opportunities to improve.]





THE BLASTONE SOLUTION

BlastOne completed a Performance 3 assessment and developed a staged upgrade plan focused on improving blast performance, abrasive recovery, breathing air setup, and future dust extraction.

STAGE ONE

Stage 1 focused on immediate performance and recovery improvements.

- ▶ Two S-Series 6.5 cu ft TeraValve blast pots
- ▶ Infinity Blast Nozzle #6
- ▶ G3 Deadman pneumatic handle assemblies
- ▶ Radex breathing air filter and breathing air hoses
- ▶ Abrasive recycling system and air wash

Why Abrasive Recovery Matters:

The abrasive recycling system and built-in air wash help reduce fines, improve reusable abrasive quality, reduce equipment wear, and support a more efficient blasting process.

STAGE TWO PLANNED

The next stage focuses on dust extraction and supporting infrastructure.

- ▶ Dust extraction upgrade
- ▶ Air supply review
- ▶ Compressor, dryer, and infrastructure assessment

EXPECTED IMPACT

▶ Increased blasting time between pot refills

▶ Improved abrasive recovery

▶ Reduced equipment wear

▶ Improved operator comfort

▶ Stronger breathing air maintenance

