



PROTECTIVE COATING SOLUTIONS: AGILE'S GAS FITTINGS PROGRAM REDUCES CORROSION, INCREASES FIELD LONGEVITY & SIMPLIFIES SUPPLY



EXECUTIVE SUMMARY

Agile Sourcing Partners partnered with Enbridge Gas Ohio to address recurring corrosion issues and coating inconsistencies in critical gas system components. By implementing a patented dual-coating process and taking ownership of quality assurance and material flow, Agile delivered over 135,000 coated fittings with a defect rate of less than 0.1%. This program not only extended product life and improved safety but also reduced labor hours associated with part rework and replacement. Enbridge gained a reliable, high-performing solution that eliminated the variability they had experienced with previous vendors—while creating a scalable, utility-wide model for corrosion protection.

OBJECTIVES

Enbridge Gas Ohio needed to standardize and strengthen its approach to corrosion resistance for valves, fittings, and connectors used in gas transmission and distribution. Previously, inconsistent application methods and poor vendor accountability led to early wear, increased field labor, and compliance concerns.

Agile's objective was to streamline the coating process, enforce quality controls, and ensure that field-ready components met Enbridge's specifications—without the need for touch-ups or manual intervention during installation. This required close collaboration with supply chain and operations teams to align product readiness with field schedules.

SOLUTIONS

Agile introduced a comprehensive coatings program that included a zinc-rich primer and durable powder topcoat, applied using a tightly controlled, in-house process. Each fitting underwent a detailed PPQP (Pre-Production Quality Plan) inspection—including surface prep, thickness measurement, cure testing, and adhesion validation. Unused powder was reclaimed and recycled, aligning with Enbridge's environmental goals.

To meet Enbridge's operational demands, Agile embedded this solution into its broader supply chain offering, handling part sourcing, coating, inspection, and delivery under one program. As a result, field teams received consistent, corrosion-resistant components on time, with no rework required. Agile's proactive coordination with Enbridge's supply chain team enabled seamless fulfillment and predictable planning.

CHALLENGES



Inconsistent coating quality from multiple vendors and applicators



Premature corrosion of gas system components leading to field rework and noncompliance



Labor inefficiencies due to parts requiring touch-ups or early replacement

DELIVERING DURABILITY & OPERATIONAL VALUE

KEY PROJECT OUTCOMES

Agile's corrosion-resistant gas fittings program delivered measurable improvements in performance, reliability, and supply consistency—ensuring utilities like Enbridge could confidently streamline operations and reduce long-term maintenance demands.

Field Reliability:

- Fittings arrive fully coated, inspected, and ready for immediate installation
- Eliminates the need for field touch-ups or rework, reducing labor costs
- Increases confidence for field crews and minimizes installation delays

Lifecycle Extension:

- Patented zinc and powder coating process resists corrosion, UV damage, and surface wear
- Extends service life by 3–5 times compared to uncoated or inconsistently coated alternatives
- Reduces frequency of part replacement, lowering total cost of ownership

Process Accountability:

- Agile oversees every step—from sourcing and coating to inspection and delivery
- Ensures consistency across thousands of fittings with a defect rate below 0.1%
- Custom quality control protocols align with utility-specific requirements

STRATEGIC BENEFITS

Lower Lifecycle Costs

By implementing AgileShield™-coated fittings, Enbridge significantly reduced labor and material costs tied to corrosion-related failures. The need for field touch-ups and rework was eliminated, and the fittings' extended 3–5x service life lowered overall replacement frequency—delivering long-term savings across their gas infrastructure.

Streamlined Supply Chain Execution

Agile managed the full product lifecycle—from sourcing and coating to quality control and delivery—ensuring consistent, installation-ready parts arrived on time. This streamlined approach eliminated delays and inefficiencies that Enbridge previously faced with other vendors, improving overall operational flow.

Improved Product Standardization

Agile's program resolved inconsistencies caused by multiple coating sources, giving Enbridge a reliable, standardized product across their Ohio network. Every component was processed under the same high standards, which helped improve reliability and reduce variability in field performance.

Quick Program Deployment

Agile rapidly qualified and scaled its coating capabilities to meet Enbridge's specific requirements. This swift implementation demonstrated Agile's ability to fill critical operational gaps with minimal disruption, adding immediate value to Enbridge's supply chain.

SUCCESS METRICS

- **Coated Fittings Delivered:** 135,000+
- **Defect Rate:** <0.1%
- **Service Life Extension:** 3–5x
- **Labor Reduction:** 50% fewer touch-ups or replacements required in the field
- **Satisfaction:** 100% field acceptance rate



CONCLUSION

Agile's gas fittings program has become a trusted solution for Enbridge, providing durable, field-ready products that align with safety, compliance, and sustainability goals. By managing the entire coating and fulfillment process, Agile reduced administrative burden, increased field productivity, and delivered predictable outcomes. This program has not only lowered total cost of ownership but also set a new benchmark for component quality and reliability across Enbridge's network.