The Latest with Stripe Coatings

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Overview

- Discuss alternative Industrial Paint Touch up Kits
- Ability to dispense, mix, brush, roll, spray from a preloaded paint cartridge
- Lean Value Streams
- Summary
Tank Stripe Coating

Compliance with IMO Requirement
2 full coats and 2 stripe coats
First stripe coat to be extensive *by manual brush*
second coat according to the need
Paint Packaging - Current Method

• Stripe Coating is a Cumbersome Process
• Paint ratios (guess measurements)
• Waste (poly pails, 5 gallon buckets, rags, solvent)
• Paint/solvent accumulation in storage areas
• Painters in lines - walking (idleness)
• Pot life shortened
• Small production batches (quart)
Cumbersome Mixing Process

Mix Ratio Often Comprised
Typical Cartridge Configuration

- Available in a wide variety of sizes and ratios
  - 75 ml, 150ml, 300ml, 600ml, 750ml
  - 1:1 up to 10:1
- Disposable static mixer
  - Static mixer mixes Paint over 1-million times
Packaging

300 x 150

Touch up Kits
Manual Mixing and Dispensing
Coating Options
Spray Stripe from Cartridge
Flex Hose Attachment – Continuous Brushing Directly from Paint Cartridges

4:1 Ratio

600 ml x 150 ml
Mixed Paint Delivered into Brush
Brush Stripe Coat Application
(Flex Hose - Illustration Model)
Lean Attributes of Cartridge Stripe Coating Technology

- **Productivity:** Reductions in handling, mixing, staging, application
- **Manageability:** Extremely easy to use, adaptable
- **Ratio Control:** Inherent in the design
- **Material Waste Reduction:** Material mixed as needed, virtually no waste, high transfer efficiency
- **Safety:** Closed system, minimizes personal exposure to hazardous chemicals
- **Costs:** Combined savings in waste reduction and productivity
Lean Attributes of Cartridge Stripe Coating Technology

**Productivity**

- 20-30 minutes eliminated in staging, handling, opening, and mixing two component paints
- Pre-loaded Cartridges can be located directly at the work site - ready for use
- Elimination of staging paint mixing areas and workers waiting for pre-mixed paint
- Elimination of equipment clean up after mixing
  - Solvents, Rags, Spills
- Can dispense, spray, roll directly from cartridge without excess waste
- Application process has demonstrated 200 – 300% improvement in application time
Lean Attributes of Cartridge Stripe Coating Technology

- **Material Waste Reduction**
  - 100% of coating dispensed through cartridge
  - Dispensing allows mix on demand, no excess material
  - Industrial Facilities ~ 25% – 30% reduction in paint waste generation
  - Elimination of spills, scraping cans, buckets, rags, solvents pallets, transfers, waste handling & disposal costs
  - Decrease in VOC emissions
  - Very little overspray when sprayed directly from the cartridge
  - Can dispense a partial cartridge, reseal and save remaining material
Summary

• Technology currently in use at most shipbuilding and repair facilities – United States
• Significantly reduced installation costs and improved product performance

Questions?