

Industry: Recycling

Plant: MRF Conveying ducting

Lining System:
K-ALOX Lining system

K-ALOX LINED DUCTWORK

Key Features:

- ✓ **Greater resilience to wear**
- ✓ **Increased operational uptime**
- ✓ **Reduces expensive replacement**
- ✓ **Lightweight construction**



Problem: Ducting conveying small fractions of MRF material had to continually be replaced due to the amount of contamination within the make-up of the recycled product. Despite the various stages of separating and cleaning the waste stream, the extraction system used to extract fines from the product would also pick up small particles of ferrous and silica based product (glass, grit etc) resulting in premature wear and perforation of the extraction system. After plant operators spent many hours continually patching the ducting with a host of repair epoxies and patching panels a long term solution needed to be found.

Solution: Having encountered this type of problem previously within the industry, Kingfisher was asked to recommend and guarantee a system that would offer trouble operation for a 5 year period. Due to the continual operating conditions and the likely hood that the operation would increase in size due to the increase in contractual volume of product from the local authority, we remanufactured the ducting out of 2mm thick plate (previously 6mm plate had been used) and protected the internal surfaces with our 4mm thick K-ALOX ceramic liners bedded and jointed in a flexible polyurethane adhesive system.

Benefit: Albeit the reinstated ducting has only been operational for 12 months, recent inspections show minimal signs of wear throughout the system and after carrying out surface thickness checks on the K-ALOX ceramic liners, the loss in service thickness equated to .33mm. Taking this impressive performance into consideration Kingfisher, the OEM and the end user are pleasantly surprised at the systems resilience at are all confident that the system will perform throughout is warranty period of 5 years.

Protecting Industry Worldwide

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