

**Industry:**  
Building

**Plant:**  
Dry Silo Mortar

**Lining System**  
K-ALOX/K-BAS lining  
system

## K-ALOX/K-BAS LINED SILO PIPEWORK

### Key Benefit

- ✓ Improved wear resistance
- ✓ Maintain blending capacity
- ✓ Prevention of material build-up
- ✓ Internal liner can be repaired in position
- ✓ Outperformed existing system by a factor of 6 to 8 times



**Problem:** A major UK supplier of dry mortar experienced constant failures with their pneumatic pipe conveying systems and after constant attempts to sort the problem they eventually approached Kingfisher Industrial to find a solution as although an existing system was used, the pipes were still failing due to excessive wear which lead to product escaping to atmosphere resulting in plant shutdown to execute repairs and replacement.

**Benefit:** During a thorough site inspection Kingfisher Industrial saw that the existing systems was not providing a sufficiently secure barrier between the pipes' surface and the highly-abrasive material being conveyed to the silo. As the existing system comprised of mosaic-style ceramic liners, an uneven surface had developed creating voids of differing dimensions between the liners thus creating both excessive wear and material build up resulting in both pipe degradation and blockages within the pipes feeding to and from the product silos. As a result of the high velocities and volumes of raw material being conveyed through the pneumatic systems, internal surfaces were suffering from degradation and engineers were having to factor in extra costs into the budget for a product that would incur more expense but last significantly longer than the existing systems currently utilised.

**Solution:** Kingfisher's qualified sales engineers visited the site and identified the root cause of failure, it was proposed by the customer to implement a recommended system on a trial basis. This would enable the dry mortar producer to analyse Kingfisher's wear-resistant pipework systems against those supplied by other companies. In support of the supply, Kingfisher re-designed the routing of the pipework to ensure the smooth transition of product throughout the system alleviating blockages and areas of pipework that were misaligned by the original supplier and were also contracted to install the new pipes which were a mixture of our K-ALOX and K-BAS lined ceramic components positioned in areas of differing wear rates.

Following the success of both trialled straight pipes and bends, Kingfisher was then awarded the supply and manufacture of the complete pipe work system utilised on site which not only fed the silos but also transferred product between silos, feeders and mixers.

## Protecting Industry Worldwide

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