



ENVIRONMENTAL TECHNOLOGY

DVS Injectable packing solves leakage problem at Scottish plant

A pulp and paper company in southern Scotland was having problems with a side entry agitator shaft, which was running out of concentricity under heavy loads.

The result was that this was causing the conventional rope style packing to become compacted, creating a leak path for the product and eventually resulting in damage to the shaft. As well as being an expensive loss of product, the leakage was causing a slip hazard in the area around the agitator. In addition, the packing was having to be changed as often as every three weeks, which involved draining down the storage tank.

To remedy the problem AESSEAL® engineers carried out a consultation with the customer. Together they decided that the best solution was AESSEAL® DVS Injectable packing, which would seal the damaged areas of the shaft. Whereas the normal rope style packing would become compressed and flattened, allowing liquid to escape at a rapid rate, the pressurized DVS injectable packing acts like a cushion, filling any imperfections or grooves in the shaft, and absorbing some of the radial shaft movements. The DVS packing can also be re-energized simply by applying more injectable packing using a high pressure injection pump.

In the six months since the DVS Injectable packing was first used in May 2025, there has been no excessive further distortion of the shaft, and no leakage. This has eliminated both the dangerous slip hazard and the expensive waste of product and has saved an estimated £17,000. In addition, there is now no need to drain down the storage tank in order to reduce or prevent product leakage.

The company's projects and reliability manager said that he was delighted with the result. *"I trusted the team from AESSEAL to fix what was my biggest problem on site and they pulled it off. The DVS turned out to be an absolute winner, and we now have plans to use it on a number of other similar applications."*



'Reliability increased from 3 weeks to >6 months'

Industry:	Pulp & Paper
Product:	DVS
Application:	Agitator
MTBF Increase:	700% (and counting)
Savings:	£17,000 (and counting)
Reference N.O:	TD3132854



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