In a glass factory in Avilés (northern Spain) the inner walls of a silo were in poor condition. Due to the various products that are stored there (calcination, fade, sand, etc), the walls were badly damaged over time and presented cracks in the structure of the building caused by the rust on the reinforcement.

A Spanish construction company received the order to renovate one of the silos and to apply a new special concrete layer. The height of the silo is 18m and the interior space is 4.5m x 4.5m.

The conventional way to remove the damaged concrete would be with mechanical tools such as jackhammer. However, these tools are not selective and the vibrations they cause can cause damage to healthy parts of the wall.
The perfect solution for this is concrete renovation with high-pressure water. For this work, our Spanish representative, Ostermann Alta Presión, rented a diesel-powered Kamjet and a KAMAT K 10016 A1-3G pump. Using a hand-held pistol KSP 3000 (with shoulder rest) and a PRD 3500 rotary nozzle with three screw-in nozzles, the damaged concrete surface could be reconstructed to a healthy depth (approx. 2 cm) free of vibration. The optimum operating pressure for this application was approx. 2,000 bar and 20 l / min. An area coverage of approx. 8-10 m² / h was achieved. With a recoil force of 211 newton, the use of the KSP was only possible with a shoulder rest, which is permitted up to 250 newton.

Customer and end customer were very satisfied with the result and will rely on KAMAT high-pressure technology for the renovation of further silos.