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Asystent

**Streszczenie rozprawy doktorskiej autorstwa mgr inż. Kamila Mogielskiego pt.  
“Parametry rur kanalizacyjnych po ich bezwykopowej rehabilitacji powłokami  
epoksydowymi utwardzonymi in situ”**

*Abstract of doctoral dissertation written by M.Eng. Kamil Mogielski titled “Sewer pipes parameters after their trenchless rehabilitation with epoxy liners cured in situ”*

The aim of the presented study was to evaluate the influence of bonding effect of the adhesive cured-in-place pipe (CIPP) liners with the inner surfaces of concrete, vitrified clay and PVC sewer pipes on load capacity of concrete and vitrified clay pipes and the ring stiffness of PVC pipes, comparing to the same solutions with independent liners, that don't stick to the internal surfaces of the pipes. The research program included load capacity and ring stiffness tests of samples made of pipes and liners and made of pipes only – control samples. On the latter ones there were made also roughness measurements of their internal surfaces. On the samples with adhesive liners there were made adhesion strength test. Liner thicknesses were measured in every sample with liner. It was shown that the load capacity growth is positively correlated with adhesion level between the liner and the pipe, which depends on the roughness of the pipe. Adhesive liner thickness reduction coefficients were determined. The coefficients allow to determine thinner adhesive liner thickness, after installation of which the same load capacity or ring stiffness growth of the sewer pipe is reached as after installation of thicker independent liner.

