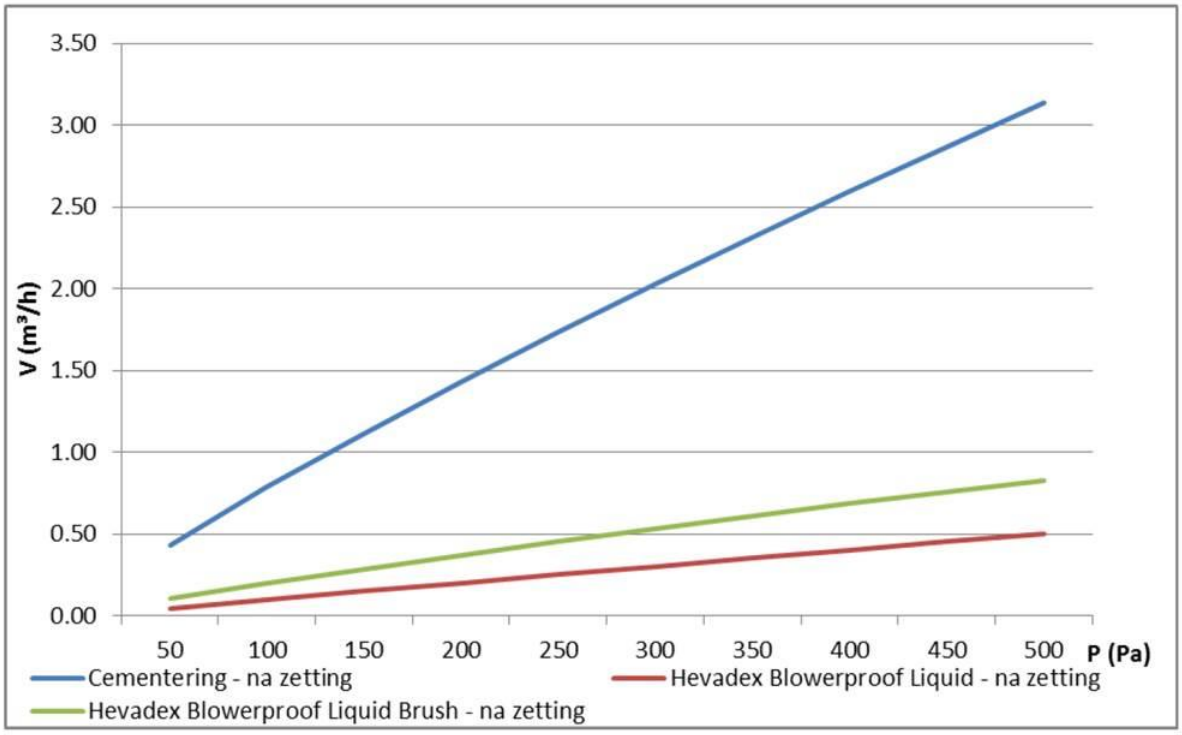
A short summary of the test we did on the hevadex coating in respect to the airtightness of foundation joints:
We evaluated the airtightness of foundation joints of a brick wall with cementitious render subjected to mechanical deformation according to the eurocode deformation limits.

Firstly, we found that the wall specimen with a render showed significant degradation in terms of airtightness, as the airflow rate through the joint increased from 0.03m³/h.m @ 50 Pa up to 0.36m³/h.m @ 50 Pa. This is predominantly caused by the cracks in the render due to the mechanical deformation.

Secondly, for the wall samples finished with blower proof liquid and blower proof liquid brush we also measured the airflow rate before and after mechanical deformation.
There we found a slight increase in airflow rate, albeit much smaller in comparison to the cementitious render. The airflow rate increased from 0.03 and 0.00 m³/h.m @ 50 Pa to 0.04 and 0.09 m³/h.m @ 50 Pa for blower proof liquid and blower proof liquid brush respectively.

In the graph below the airflow rates are reported for the test samples with rendering and samples with blower proof liquid and blower proof liquid brush after the mechanical deformation. The results clearly indicate that the liquid applied coatings result in a better performance when subjected to mechanical loading with the limits of the Eurocode for foundations.



If you would have any questions, don't hesitate to contact me.

Best regards,

Prof. Nathan Van Den Bossche, PhD
Building Science – Ghent University
Faculty of Engineering and Architecture
Sint Pietersnieuwstraat 41 B4
9000 Ghent, Belgium
T +32 (0)9 264 39 27
M +32 (0)476 97 85 91