CASE STUDY - FILLFOAM™ FILLS LOWER-LEVEL SPACE IN HISTORIC BUILDING

Cinncinati, Ohio

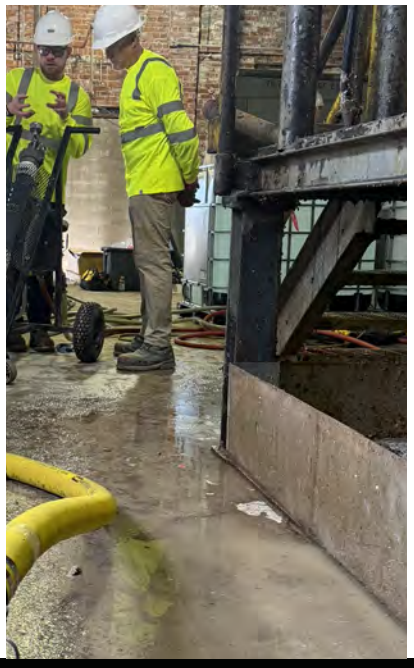
THE PROBLEM

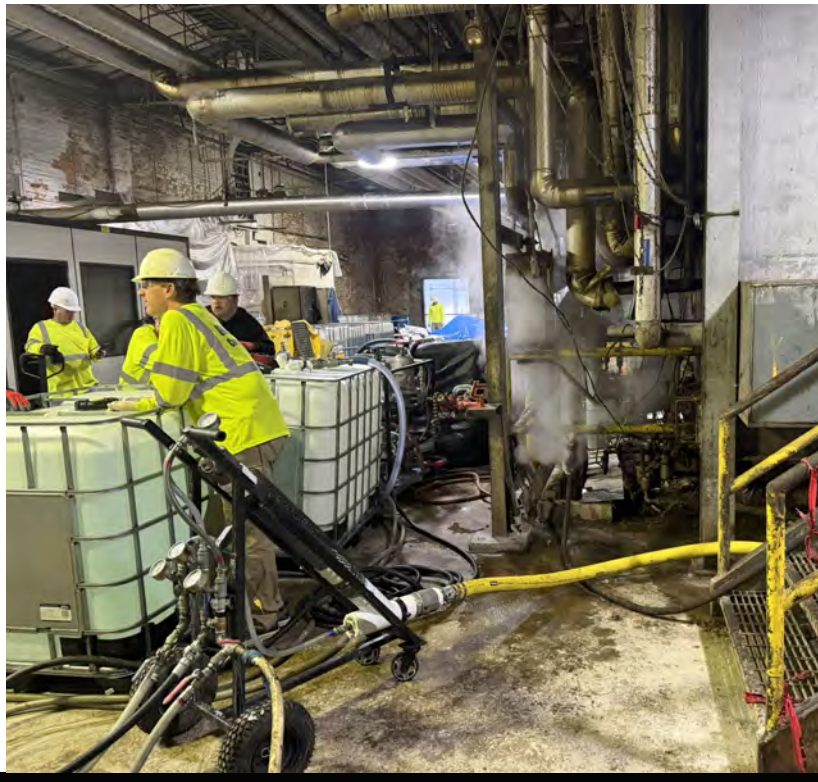
A historic building constructed in 1904 required structural repairs to portions of its existing floor system. Large equipment positioned on the floor above a lower-level space complicated access to portions of the structure, limiting the ability to perform conventional repairs in those areas.

As part of the overall repair project, filling the lower-level space was identified as a precautionary measure. The application required a lightweight material capable of filling a substantial enclosed volume through limited access points, without requiring removal of the equipment above.









THE SOLUTION

HMI partnered with customer Pro Concrete Leveling of Indiana, providing specialized FillFoam equipment and on-site technical support throughout the project.

A masonry wall was constructed to enclose the lower-level space, allowing crews to fill it with HMI's FillFoam. Material was installed primarily through injection locations in the floor above, providing access for placement into the enclosed area below.

HMI supplied 18 tote sets containing 4,500 pounds each, for a total of 81,000 pounds of material.

One of the advantages of FillFoam is the ability to adjust its density to accommodate different placement conditions. Crews used higher-density foam in areas where greater flow and spread were needed, particularly during the initial stages of filling the space. As the installation progressed, foam density was adjusted to accommodate changing placement conditions and achieve a complete fill.

The installation was completed in three days, demonstrating the versatility of FillFoam for large-volume void filling applications.





THE SUMMARY

Crews successfully installed 81,000 pounds of FillFoam over three days, filling the enclosed lower-level space of a historic building ahead of planned structural repairs.

The ability to adjust foam density during installation provided flexibility in controlling material flow and placement as field conditions changed.

The completed installation highlighted FillFoam's adaptability for challenging, large-volume void filling applications, particularly where access is limited and placement conditions require flexibility.







