

Poroforam

Low density
foamed concrete





Nothing fills like Porof foam

Porof foam is our range of low density foamed concretes suitable for voidfill, stabilisation and other lightweight applications.

Made with Cemex admixtures, Porof foam is available in a wide range of densities and compressive strengths to suit your project's specific needs. It is easy to place, does not require compaction, and can be produced onsite using our foam generation units, or it can be delivered premixed in trucks.

Porof foam is the only low-density foamed concrete that is delivered ready to place at densities as low as 300kg/m³ removing the need for specialised equipment on site, especially when space and access is limited.

Applications

- Voidfill.
- Trench Reinstatement.
- Sewers and Pipelines.
- Bridge Abutment.
- Tanks, Culverts and Subways.
- Sink holes.
- Tunnelling.

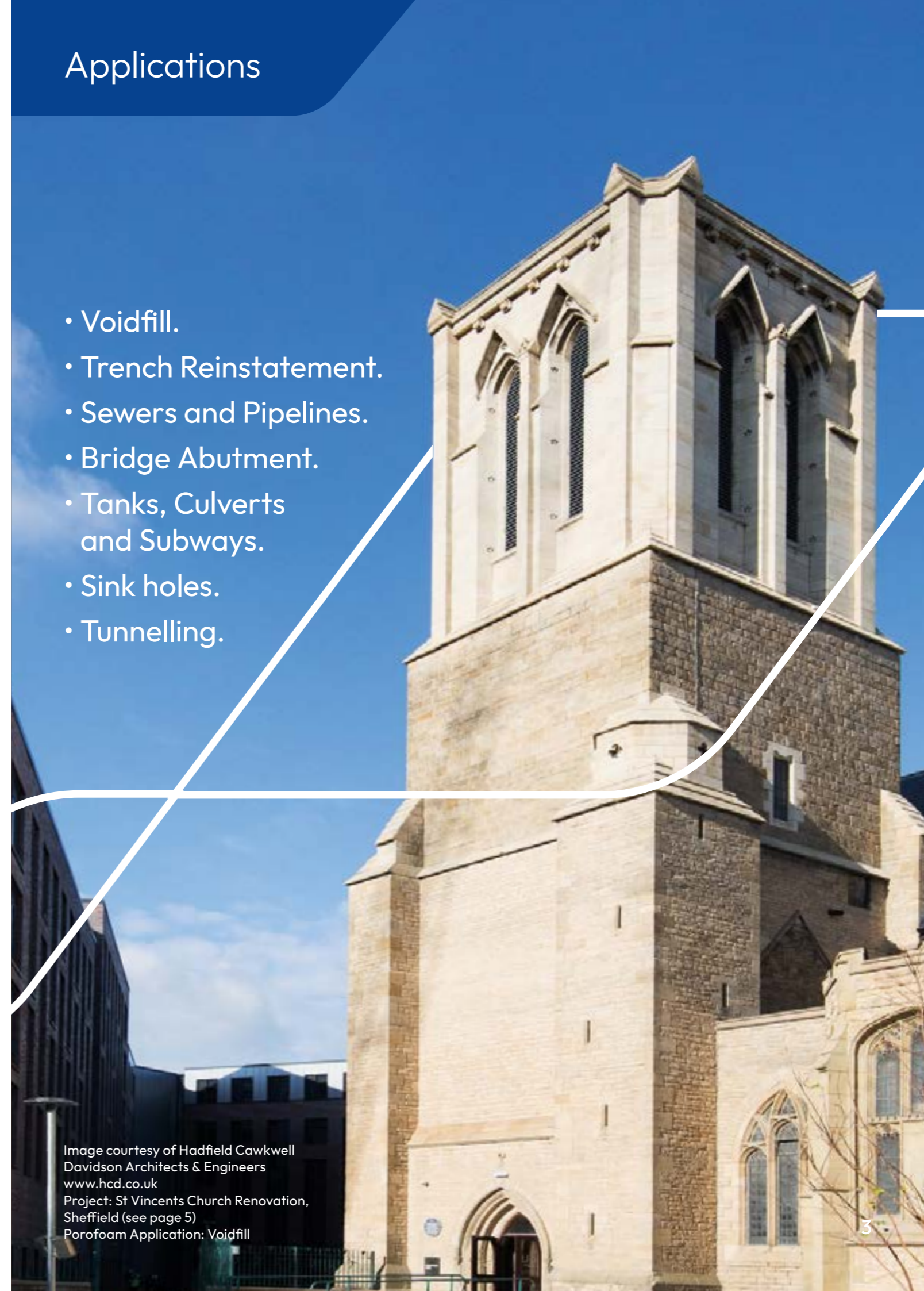
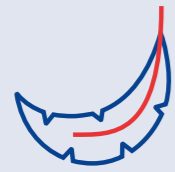


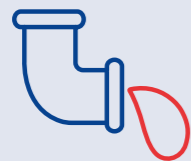
Image courtesy of Hadfield Cawkwell Davidson Architects & Engineers
www.hcd.co.uk
Project: St Vincents Church Renovation, Sheffield (see page 5)
Porof foam Application: Voidfill



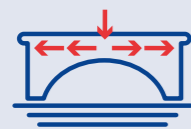
Lightweight concrete
High air content making it easy to fill voids.



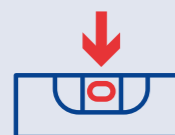
Freeze / thaw resistant
High air content makes it resistant to freeze/thaw and provides good thermal and acoustic insulation.



Pumpable foamed concrete
Can be pumped significant distances and can be placed by conventional concrete pumps.



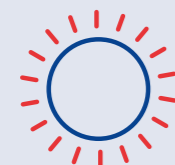
Self-compacting and self-levelling
Making it ideal for inaccessible trenches where compaction would be difficult or impossible. It allows for controlled discharge into narrow openings.



Load spreading
Reduced risk of subsidence.



Highly fluid
Making it easy to place and finish thanks to a single process installation.



Insulating properties
Can be used as a low density insulating sub-screed.

We'll work with you to find the right density and strength.

Our technical team will work with you to create a suitable mix design for your application. Porof foam can achieve strengths of up to 20 N/mm² and our unique production process allows us to produce an extremely wide range of dry densities from as low as 300kg/m³ up to 2000kg/m³. For strengths and densities outside of this range our team will work with you to provide a solution.

Projects



St Vincent's Church, Sheffield

St Vincent's Church has been fully restored and refurbished as a communal student facility as part of the overall site redevelopment, which also includes two new student residential buildings.

The renovation project required a mass filling of the existing basement with 20 N/mm² concrete. Cemex was approached for a suitable voidfill solution, we proposed to use Porof foam. Using Porof foam enabled the pour to be completed in less than half the time than a standard concrete, and help to reduce the lateral pressures exerted on the 165 year old internal walls of the basement.

Image courtesy of Hadfield Cawkwell Davidson Architects & Engineers.



Tottenham House, Somerset

Tottenham House, Somerset is a Grade I listed building and an important part of national heritage. The mansion was built in the 17th century and has been home to several notable figures over the years, including the Earl of Cardigan. The mansion has 90,000 square feet of floor space and includes a number of grand rooms, such as a ballroom and a library.

Following new owners, there are grand plans to restore it back into a single-family home. As part of the renovation, Cemex supplied 160m³ of Porof foam with a density of 300 kg/m³. The free-flowing, lightweight properties of Porof foam enabled the basement void to be completely filled to support the structure of the old building.

Porof foam can be pumped, horizontally, vertically, or directly placed in layers of up to 1m single lift depth in order to maintain the required air void structure.

The fluid nature of Porof foam allows the concrete to free flow into even the smallest of spaces making it highly suitable for voidfill applications.

Porof foam also exhibits no settlement characteristics that may occur with granular fill materials allowing a much more stable fill.

Features and benefits

- Densities from 300kg/m³ up to 2000kg/m³. For strengths and densities outside of this range our team will work with you to provide a solution.
- Porof foam can achieve strengths of up to 20 N/mm².
- High air content – resistance to freeze/thaw damage and allows a good thermal and acoustic insulation.
- Supplied to a target, maximum or minimum density and/or minimum compressive strength.
- Adjust the consistence of Porof foam to aid placement when required.



For full technical information and to download the technical datasheet visit our website cemex.co.uk/porof foam

For further enquiries or to
place an order contact us:



01926 818 264



gb-enquiries@cemex.com



cemex.co.uk/porofoam

Specification for renovation

Foamed concrete CPD course and a
dedicated team available to help.



Scan to find out more

Cemex is a global leader in the building materials industry providing high-quality, innovative products and exceptional service to both customers and the community in the most sustainable and efficient way possible.

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