



TECHNICAL DATASHEET

ULTRA LOW DENSITY LIGHT WEIGHT FOAM CONCRETES

Propump Engineering provide a wide range of different mix designs. Our unique system allows us to produce foam concrete on-site and in-situ using ready mix materials at densities as low as 300kg/m³. Our protein derived foaming agent can produce stable foam concretes in controlled environments lower than 250kg/m³.



Some 28,000 m³ of 450kg/m³ highly air entrained cellular concrete (foamed concrete) provided at Gerrards Cross, . Foamed Concrete specified to reduce the loading after traditional infill material caused the tunnel to collapse onto the railway.

Propump Engineering frequently produce ultra-light foam concretes on site with a wet density less than 500kg/m³. Ultra light-weight and even light weight foamed concretes are produced by injecting up to 85% by volume high expansion foam, into a high cement content grout mix. For this reason, Propump have designed in-line foam injection pumps that will process neat grout material, whilst simultaneously injecting the correct volume of foam in-line. These in-line foam concrete pumps can produce up-to 25m³ of foam concrete from a single on-site 6m³ delivery of grout from a ready mix supplier.

APPLICATIONS

- Roads and Sub Bases
- Large voids
- Mine shafts
- Complex formworks
- Tunnels
- TBM Launch Medium
- Floor Slabs
- Subway Decommissioning
- Tank filling

For More information CALL **+44(0)1322429900** Propump Engineering,
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PROPERTIES

- Insulation Values as low as 0.15W/MK
- Easily re-excavate-able material
- Up to 5 X Fewer onsite deliveries
- Up 5 X less loading (than a traditional concrete)
- Higher early strength gain

Strength and Density

Propump have the Experience, knowledge and ability to design and tailor a wide range of mixes to your requirements. New mixes can be designed, trialled and tested for use if so required. With over 10 individual mix profiles and 12,000 individual onsite results, our knowledge of foamed concretes is unrivalled

Typical Strength Range:	0.5N/mm² – 1N/mm²
Typical Density Range:	<500 kg/m³

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