

Technical information

TOPFOAM

Topfoam is a range of free flowing concrete that has been specifically developed for void fill. Simply poured into place to the required level, it needs no compaction, has excellent insulating properties and can be delivered to site in conventional ready-mix concrete trucks.

APPLICATIONS

- Tank fill
- Subways
- Sewers
- Culverts
- Disused mine workings to engineering specified calculations
- Pipelines
- Bridge deck infilling
- HAUC reinstatements (conforms to Section A9 of the SROH as a Foamed Concrete for Reinstatement (FCR) and Clause 1043 of the Specification for Highway Works SHW).

BENEFITS

- Strength/density can be adjusted or modified to suit individual construction applications
- Excellent void filling ability Free flowing
- No compaction required
- Does not settle after placement
- Permits easy re-excavation
- Reduced equipment cost
- No site storage of fill material
- Frost protection of pipes
- Pumpable designs available
- Directly placed.

STRENGTH AND DENSITY

The fresh wet density and compressive strength of Topfoam can be varied over a wide range depending on the proposed application.

Compressive strengths range from 1N/mm² to 10N/mm² and fresh wet densities from 800kg/m³ to 1800kg/m³ depending on the application, but not guaranteed.

- Lower Density - Tarmac can work with specialist contractors, to deliver either a base mix or combined solution.

CONSISTENCY

Topfoam is a highly workable free flowing concrete requiring no compaction effort. It's consistency is suitable for placement purposes. It can be placed by either direct discharge from the truck mixer or, subject availability, pumped using a conventional concrete pump. The installation of sections deeper than 1 metre can cause the collapse of the air within the mix matrix due to the concrete's self weight. It is therefore recommended to limit the pour depth to 1 metre and cast deeper sections in consecutive pours.

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TOPFOAM ROAD

Topfoam Road has been specifically developed for Highway applications. This is a free flowing, foamed concrete that is an ideal trench reinstatement material to comply with the recommendations of the HAUC (Highway Authorities & Utilities Committee) legislation.

Simply poured into the excavation to the required level, Topfoam Road requires no compaction and restores lateral support to and the backfill is then complete. A wearing course can generally be laid within 24 hours.

This mix is perfect for the following applications;

- Cable TV trenches
- Utility trenches
- Carriageway excavations
- HAUC reinstatements.

In specific instances Topfoam road can be pigmented to visually denote the encapsulated service/utility within the concrete.

NOTE

Although Topfoam is ideally suited to a wide range of applications, it should not be placed directly into water or against particularly absorbent materials. Topfoam should not be placed when the ambient temperature is below 5 degrees Centigrade.