

CEMATRIX™

Cellular Concrete Solutions

LIGHTWEIGHT CELLULAR CONCRETE

 **LAFARGE**
Building better cities™

CEMATRIX™ CELLULAR CONCRETE

for Lightweight and Thermal Protection

CEMATRIX™ can be used as lightweight fill, insulation or self-compacting flowable void fill. It is a portland cement-based material with a foaming agent which produces air bubbles that take the place of aggregates. The trapped air offers superior thermal protection, making it ideal for many infrastructure, industrial (oil and gas) and commercial applications.

HIGH PERFORMANCE

- Self-compacting
- Well bonded, monolithic, self-supporting
- Resistant to hydrocarbons
- Freeze/thaw, sulphate and salt resistance
- High-strength insulator
- Low permeability and water absorption
- Fire and heat resistance
- High strength to weight ratio

COST-EFFECTIVE

- High output/production capabilities on-site
- Long pumping distances under low pressure
- Less subgrade preparation required
- Creates an excellent working platform for construction
- Can be easily excavated or removed later
- Ease and speed of placement
- Reduces construction traffic and congestion



CEMATRIX™ around MSE walls

APPLICATIONS

Roads

- Frost protection under roadways
- Alternative roadbed support over weak soils

Bridges and Culverts

- Lightweight backfill for retaining walls (MSE and RSS wall backfill)
- Integral bridge abutments
- Culvert, arch, wingwall and span backfill
- Grouting casings, pipes, and culverts

Buried Utilities

- Insulation for shallow buried utility lines
- Bedding and support of buried pipelines
- Grouting of annular spaces

Oil & Gas

- Tank foundation systems
- Pile cap and module infill and insulation
- Shallow foundation and slab insulation
- Sulphur pit and buried tank insulation and thermal stress reduction
- Shallow utility insulation

General

- Thermal protection of permafrost
- Tunnel grouting
- Lightweight engineered fill

CEMATRIX™ is a versatile lightweight fill and offers superior thermal protection in a variety of applications.

Contact your Lafarge rep to find out more about CEMATRIX™.



CEMATRIX™ used as lightweight fill for roadways