



# Dufferin Foamcrete<sup>®</sup>, a versatile building solution

Lightweight, excellent flowability and filling capacity, self-consolidation and good insulation makes Dufferin Foamcrete<sup>®</sup> ideal for your next project.

Dufferin Foamcrete<sup>®</sup> is also fire resistant, and its thermal and acoustical insulation properties make it ideal for a wide range of purposes, from insulating walls and roofs, to void filling and annular grouting.



Hwy 7/8 Overpasses (Barrier wall gap filling)



Durham Region Transit Maintenance Facility (Watermain protection and insulation)



Toronto Gerrard Street Watermain Replacement (Discarded watermain backfilling)

Over the past year, Dufferin Concrete and Ontario Redimix have produced over 7,000 m<sup>3</sup> of Dufferin Foamcrete® making great strides in application and using this innovative solution for a variety of projects.

The product has been used effectively in projects like the Toronto Gerrard Street Watermain Replacement Project where its excellent flowability, filling capacity and pumpability made it perfect to backfill the old watermain. It was also used as the backfilling material of choice in the Durham Region Transit Maintenance Facility Project to provide protection and insulation to the pipeline system.

With its high flowability, self-compaction and excellent insulation, it protects the watermain from frost penetration and stabilizes the frozen soil surrounding the pipe system. On the Hwy7/8 overpasses in Kitchener, Dufferin Foamcrete® was used to fill the barrier wall gap to reduce the dead load applied on the overpass structure.

The product proved to have good consistency and performance during the winter construction season with successful production of over 1,000 m<sup>3</sup> a day.

#### ADVANTAGES

- **Weight reduction** of structures: Less steel reinforcements required for slabs, columns, beams and foundation.
- **Easy-consolidation: no compaction** required.
- Improved **thermal insulation**: Can achieve over 20 times higher insulation results compared to normal concrete.
- Improved **fire resistance**
- **Sound attenuation**
- Easily **re-excavated** if necessary.

Dufferin Foamcrete® is available to customers in a wide range of density and strength developments. The team has developed the technical expertise to optimize the entire process, from production to on-site application, ensuring performance and quality consistency for all applications. We have also improved the safety of the operation procedure by implementing a unique application extension to completely eliminate the need to work at heights. This improvement was recognized with the Gold prize at the 2015 President's Awards for OH&S excellence, honouring projects that improve health and safety throughout the company.

Dufferin Concrete is also working on additional applications including pavement and pre-cast solutions for residential and commercial buildings. ■

## Applications

- Backfill
- Grouting
- Insulation
- Weight reduction
- Trench reinstatement
- Road sub-base
- Sunken portion filling
- Soil stabilization
- Precast blocks and panels
- Hollow block filling