



Dufferin
Concrete
A CRH COMPANY

Thermalcrete

Concrete technology designed to
overcome cold weather site conditions



Thermalcrete



Thermalcrete is Dufferin Concrete developed technology that uses non-chloride set accelerators designed specifically for our winter conditions. At temperatures as low as -10°C , Thermalcrete provides concrete with the same behaviors and characteristics as the same concrete subjected to a temperature of 20°C , such as a normal setting time of about 8 hours.

BENEFITS

- Controlled setting time for faster finishing
- Better finish surface
- Meets the CSA A23.1 Canadian standards requirements
- Safe for reinforcing steel
- Reduces heating and hoarding costs

TEMPERATURE RANGES

Thermalcrete ranges available:

- **Thermalcrete $+6^{\circ}\text{C}$:** Above 6°C
- **Thermalcrete $+3^{\circ}\text{C}$:** $+3^{\circ}\text{C}$ to $+5^{\circ}\text{C}$
- **Thermalcrete 0°C :** 0°C to 2°C
- **Thermalcrete -3°C :** -3°C to -1°C
- **Thermalcrete -7°C :** -7°C to -4°C
- **Thermalcrete -10°C :** -10°C to -8°C

It should be noted that the Thermalcrete reference range temperatures are the minimum ambient temperatures at point of placement, encountered in the following 12 hours after pour completion.

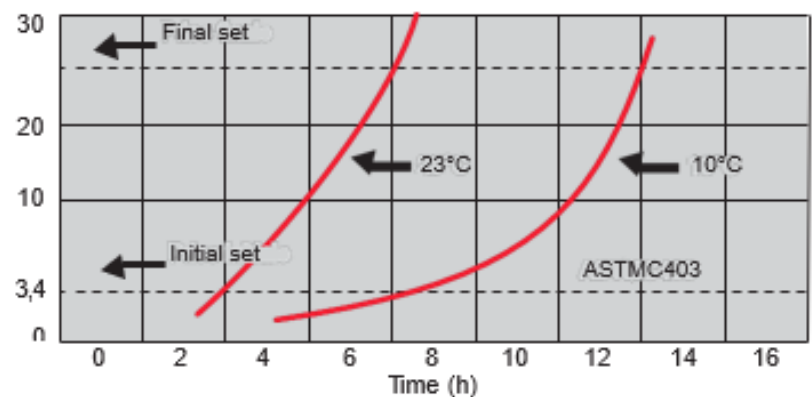
AVAILABILITY AND PERFORMANCE

Thermalcrete is available at all Dufferin Concrete plants, thus assuring quality, uniformity, homogeneity as well as performance of all concrete mixes supplied.

RECOMMENDATIONS AND OBLIGATIONS

In order for Thermalcrete technology to perform in counteracting cold weather conditions, CSA A23.1 standard 'Cold Concreting' best practices should be applied (blankets, shelters, windbreak, curing, etc.).

Compressive strength (MPa)



Note: reference CPCA

