



**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  $-15^{\circ}\text{C}$ , Thermalcrete provides concrete with the behavior and characteristics as the same concrete subjected to a temperature of  $20^{\circ}\text{C}$ , such as a normal setting time.

## 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 range available:

- Thermalcrete  $+6^{\circ}\text{C}$ : (Above  $+6^{\circ}\text{C}$ )
- Thermalcrete  $+3^{\circ}\text{C}$ : ( $+3^{\circ}\text{C}$  to  $+5^{\circ}\text{C}$ )
- Thermalcrete  $0^{\circ}\text{C}$ : ( $0^{\circ}\text{C}$  to  $+2^{\circ}\text{C}$ )
- Thermalcrete  $-3^{\circ}\text{C}$ : ( $-3^{\circ}\text{C}$  to  $-1^{\circ}\text{C}$ )
- Thermalcrete  $-7^{\circ}\text{C}$ : ( $-7^{\circ}\text{C}$  to  $-4^{\circ}\text{C}$ )
- Thermalcrete  $-10^{\circ}\text{C}$ : ( $-10^{\circ}\text{C}$  to  $-8^{\circ}\text{C}$ )
- Thermalcrete  $-15^{\circ}\text{C}$ : ( $-15^{\circ}\text{C}$  to  $-11^{\circ}\text{C}$ )

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.

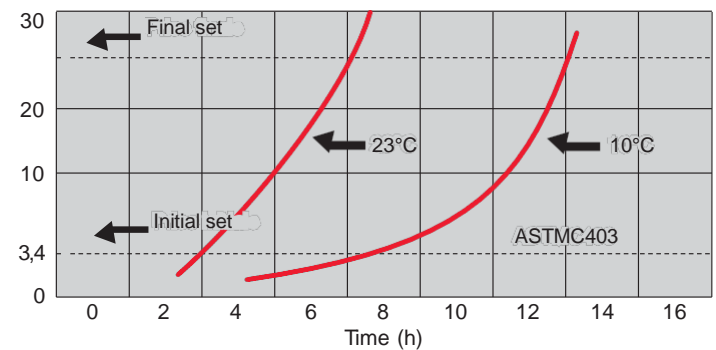
## AVAILABILITY AND PERFORMANCE

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 effects on concrete set time, CSA A23.1 standard "Cold concreting" best practices should be applied (blankets, shelters, windbreak, curing, etc.).

Compressive strength (MPa)



Note : reference CPCA

