

# TEMPtect™

All-season concrete

## PERFECT WHEN THE WEATHER ISN'T

TEMPtect is engineered to withstand extreme temperatures, extending construction season into winter and summer months, when conditions are typically challenging for concrete placement.

### Primary Features

- Specially designed to tolerate temperatures outside the ideal range 10-27°C / 50-80°F for traditional concrete placement
- Permits placement of concrete in temperatures as low as -7°C and as high as 40°C (19-105°F)
- Guaranteed 4-hour (+/- 1 hour) initial set time provided CAN/ CSA-A23.1-24 practices are followed
- Reduces heating and protection time in cold weather, and reduces the evaporation rate and moisture loss in the summer
- Extends construction time further into the winter and summer months, where the temperatures may not be ideal for concrete placement
- Controlled and predictable setting time leads to faster slab finishing and lower and predictable labor costs for contractors
- Delivers superior workability with reduced segregation and bleeding
- Superior finishing characteristics for flatwork and cast surfaces
- TEMPtect can be placed using a chute, bucket, pump, or convey

### Additional Information

- Does not contain calcium chloride or any other intentionally added chloride-containing ingredients, making it an excellent choice for any concrete in contact with steel surfaces
- Will not initiate or promote corrosion of reinforcing steel embedded in concrete or galvanized steel floor and roof systems
- Exceeds industry standards for durability due to freezing and thawing, offering superior workability, pumpability, and placement with accelerated concrete setting times
- To manage concrete temperatures in hot weather, Amrize utilizes chilled water, ice substitution, shaded aggregates stockpiles, sprinkling aggregates, and early morning batching
- Placement and curing should follow the regulations of CAN/CSA A23.1-24 for both hot and cold weather concreting

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## Cold Weather

Recommended Mix	Temperature (°C) in situ	Temperature (°F) in situ
TEMPtect C1	10° to 8°C	50° to 46°F
TEMPtect C2	7° to 5°C	45° to 41°F
TEMPtect C3	4° to 2°C	40° to 35°F
TEMPtect C4	1° to -1°C	34° to 30°F
TEMPtect C5	-2° to -4°C	29° to 24°F
TEMPtect C6	-5° to -7°C	23° to 19°F

## Hot Weather

Recommended Mix	Temperature (°C) in situ	Temperature (°F) in situ
TEMPtect H1	27° to 29°C	81° to 85°F
TEMPtect H2	30° to 32°C	86° to 90°F
TEMPtect H3	33° to 35°C	91° to 95°F
TEMPtect H4	36° to 37°C	96° to 100°F
TEMPtect H5	38° to 40°C	101° to 105°F

