



# STANDARD PRE-MIXED CONCRETE

## Technical Data Sheet

Quality pre-packaged dry concrete product

[multicretesystems.com](http://multicretesystems.com)

### Product Description

Standard Pre-Mixed Dry Concrete is a bagged product consisting of accurately weighed Portland Cement and specially graded coarse and fine aggregates. This product, in its most basic form, is ideal for many construction projects including pads, sidewalks, walls, post holes etc. Just add water, mix, and place. Multicrete can custom blend several different admixtures into our Standard Pre-Mixed Dry Concrete to meet the strictest project requirements. Please refer to the *Admixture Options* section for more information.

### Quality

Multicrete Standard Pre-Mixed Dry Concrete conforms to CSA A23.1-19 standards and is batched in plants that are certified by provincial Ready-Mix Concrete Associations. Regular quality control tests are performed, and test reports are available upon request.



### Technical Data

#### Typical Properties

When mixed to a **75mm** slump (approximately 150 L of water per 1650 kg bulk bag), MSI Standard Pre-Mixed Concrete will reach 28-day strengths of 30 MPa or higher.

#### Admixture Options

Any admixture or a combination of several admixtures can drastically alter the plastic and cured state of MSI Pre-Mixed Dry Concretes. Below are admixture examples and their desired effects:

- **Air Entrainment** – Used to increase freeze thaw durability
- **Super Plasticizers** – To increase workability and strength
- **Accelerators** – Typically used in cold weather applications to decrease setting times
- **Fiber Reinforcements** – Used to increase durability and minimize cracking
- **Shrinkage Reducing** – Used to minimize cracks, curling and warping.
- **Crystalline Water Proofing** – Primarily used in water retention structures to prevent the ingress of water. This self healing admixture creates crystals when water is present generating a non-soluble formation within the concrete pores; permanently sealing the concrete, preventing penetration of water and other liquids.
- **Colors** – We have access to several different pigments to change the look and feel of concrete. Typically used in landscaping applications for stamped concrete



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### Special Mix Requirements

In addition to the admixtures listed above, we can custom blend different Supplementary Cement Materials (SCM's) to alter the performance. SCM's can:

- Reduce permeability.
- Increase workability.
- Increase strength.
- Combat Alkali-Silica Reaction issues.
- Combat chloride and sulphate ingress.

### Mixing

Contact Multicrete for a detailed list of mixing instructions.

*Please note, mix and substrate temperatures should be maintained between 10°C and 30°C (50°F and 86°F) 24 hours prior to and 48 hours after.*

### Curing

Standard pre-mixed concrete sets in approximately 6 hours. Keeping the material covered is vital to allow the mix to set properly. If possible moist curing techniques should be utilized after initial set is achieved. Allow the material to cure for 3 days. Concrete material can be opened once fully set in 24 hours. Curing allows for the newly placed material to set until the surface is hard to the touch.

### Yield, Packaging and Concrete Shelf Life

- Multicrete Standard Pre-Mixed Dry Concrete is available in 1650 kg bulk bags that, when mixed with water; will produce one cubic yard of concrete.
- These bulk bags are capped and wrapped in durable poly plastics to prevent water from entering these bags when stored outside.
- Additional protection (covering with tarps or placed into a structure) from the elements may be required if bags are to be left outside for longer periods of time.
- If protected from the elements, bagged materials should be used up within one calendar year. If more time has passed, a couple simple tests can determine whether this older material is good for use.
- Custom packaging between 500 kg and 2200 kg is also available. Please contact Multicrete to discuss your packaging needs.

### Safety

Multicrete Standard Pre-Mixed concrete contains Portland cement and other carefully selected additives. Normal safety wear such as rubber gloves, respirators and safety glasses used to handle conventional cement-based products should be worn. Safety Data Sheets (SDS) are available on request.

### Website

For information about Multicrete Group and all our related products visit us at <https://www.multicretesystems.com/> or call us at (204) 262-5900



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