

DESCRIPTION: SAKRETE® PSI 6000™ is a high strength concrete reinforced with air entraining admixture and alkali resistant fibers to resist cracking and provide durability against freeze-thaw damage. It is designed for all types of residential construction such as driveways, sidewalks and foundations. SAKRETE® PSI 6000™ is ideal for use by contractors and especially for heavy traffic areas and concrete slabs subject to de-icing compounds.

USES:

Driveways	Slabs
Sidewalks	Foundations
Columns	Retaining Walls
Stairs	Resurfacing Concrete
Footings	Curbs
Patio Decks	Culverts

ADVANTAGES: SAKRETE® PSI 6000™ has the following advantages:

- ⇒ Quick strength gain
- ⇒ Easy to mix and place
- ⇒ Air entrained for superior durability
- ⇒ Reinforced with Alkali Resistant Fibers to resist cracking
- ⇒ Construction grade quality

PROCEDURES: MECHANIC MIXING: Add 3/4th of the water required into the concrete mixer. Slowly add the contents of SAKRETE® PSI 6000™ bag into the mixer and mix together. Slowly add the remaining water to achieve desired slump. Mix until the material has been thoroughly blended and the required consistency obtained. Slump may vary due to mixing equipment and site conditions. Total mixing time: 5 to 10 minutes.

HAND MIXING: Empty a bag of SAKRETE® PSI 6000™ into a wheelbarrow or onto a large piece of plywood. Make a crater in the middle for adding water. Slowly add the required water and mix continuously. Mix until the material has been thoroughly blended and the required consistency obtained. Slump may vary due to mixing equipment and site conditions. Do not exceed the recommended maximum water.

SLUMP	RECOMMENDED WATER /25KG (55LB.)
75±25 mm	2.0 Liters (2.1 US Qt.) maximum

CURING: Account for local environmental conditions when selecting the curing method. High heat, low humidity or wind will increase the evaporation of water. Fresh concrete should be shaded from direct sunlight or excessive wind from the time of placement until initial set. Keep the surface damp using a sprinkler, wet burlap or cover and with plastic for several days as needed, curing water should not be used until the patch material is hard to the touch. In cold weather adequately cover and keep from freezing for a minimum of 24hours. Refer to ACI 308 Guide to curing concrete.

TECHNICAL DATA: The data outlined below is representative of typical values achievable under controlled laboratory conditions. Results obtained in the field may vary from those stated.

Properties	Test Method	
Slump	CSA A23.2-5C	75±25 mm
Air Content %	CSA A23.2-4C	4 to 6%
Compressive Strength: MPa (psi)	1d	10 (1450)
	3d	13 (2000)
	7d	35 (5075)
	28d	42 (6090)
Density: kg/m ³ (lb/ft ³)	CSA A23.2-6C	2305 (144)
Yield: m ³ /bag(ft ³ /bag)	CSA A23.2-6C	0.012 (0.41)
Working Time		1 hour

APPROXIMATE NUMBER OF BAGS REQUIRED:

SLAB	Thickness = 0.25 ft (3 inch)		Thickness = 0.33 ft (4 inch)	
	Width (1ft)	Width (3ft)	Width (1ft)	Width (3ft)
1 ft.	1/2 bag	1 (3/4) bags	3/4 bags	2 (1/2)bags
2 ft.	1 (1/4) bags	3 (3/4)bags	1 (1/2)bags	5bags
3 ft.	2 bags	5 (1/2) bags	2 (1/2)bags	7 (1/2)bags
4 ft.	2 (1/2) bags	7 (1/2)bags	3 (1/4)bags	10bags
5 ft.	3 bags	9 (1/4)bags	4bags	12 (1/4)bags

CIRCULAR COLUMN	6 inch diameter (150 mm)	8 inch diameter (200 mm)	12 inch diameter (300 mm)
1 ft.	1/2 bag	1 bag	2 bags
2 ft.	1 bag	1 (3/4) bags	4 bags
3 ft.	1 (1/2) bags	2 (1/2) bags	5 (3/4) bags
4 ft.	2 bags	3 (1/2) bags	7 (3/4) bags
5 ft.	2 (1/2) bags	4 (1/4) bags	9 (3/4) bags

LIMITATION: Exceeding the maximum recommended water content per sack will result in inferior physical properties. Liability for damages or defective goods shall be limited to the refund of the purchase price or product replacement.

PACKAGING: SAKRETE® PSI 6000™ is packaged in 25kg (55lb.) paper bags. All Basalite Dry Mix can be custom-packaged to suit specific project requirements.

SAFETY PRECAUTIONS: SAKRETE® PSI 6000™ contains Portland cement. Normal safety wear such as rubber gloves, dust masks and safety glasses, used to handle conventional cement-based products, should be worn. Safety Data Sheets are available at www.basalite.ca.