

**SONOCRETE®**  
**SONOFLOW®**  
**Cementitious self-leveling floor underlayment**

**FEATURES**

- One component
- Range of application thicknesses
- No troweling
- Pumpable
- Heat refractive

**BENEFITS**

- Just add water and mix
- Accepts early foot traffic
- Reduces labor costs
- Can be used with radiant heating floor systems

**How to Apply Sonoflow**

**Priming**

Sonoflow Primer 100 and Primer 150 ensure maximum adhesion between the substrate and the underlayment. Primer 100 produces best results with absorbent substrates; Primer 150 should be used for low absorbency substrates.

1. Due to variable substrate porosity and texture, choose one of the following options:
  - a) Primer 100 undiluted at 200 to 400 sq. ft.
  - b) Primer 150 diluted 1 to 1 with potable water at 200-400 sq. ft
 Allow the primer to dry completely to a tack-free film (3-4 hours). Drying time will vary with temperature and humidity.
2. Very porous concrete floors may require two applications. In such cases, dilute 1 part Primer 100 with 2 parts of potable water. Apply to cover approximately 200-300 sq. ft. Allow to dry at least one hour. Dilute second coat 1 to 1 with potable water. Allow to dry 3-4 hours.
3. If the primer dries for more than 12 hours before the application of Sonoflow, the substrate must be reprimed with Primer 100 or 150 diluted 1 to 1 with potable water.

Protect all primed surfaces from traffic and dust.

**Application**

1. Pour Sonoflow over the substrate in a continuous operation, distributing with a long-handled spreader and spiked roller where needed. No troweling is required.
2. When hand mixing Sonoflow, use a spiked roller to improve the healing of subsequent pours.
3. For applications between 1/2" to 1" thick, Sonoflow must be extended by adding 25-50 lbs. of clean 1/8" coarse graded, washed sand per 50 lb. bag. For placement exceeding 1", contact Technical Service for placement and aggregate extension recommendations. First mix Sonoflow, then add the required aggregate during the last minute of mixing.

If a finish coat is required, apply a non-aggregate extended layer of Sonoflow after the first pour becomes walkable (3-4 hours). If not possible and the first layer is more than 12 hours old, reprime with Primer 100 or 150 diluted 1 to 1 with potable water.

4. All floor adhesives compatible with normal concrete may be used with Sonoflow.

**Sonoflow as a light traffic-bearing surface**

Sonoflow must be placed in accordance with this technical data guide at a minimum thickness of 1/4" when coated over and 1/8" when carpeted or tiled over and allowed to cure for at least 48 hours (75°F and 50% relative humidity). At thicker applications, additional curing time may be required.

**Drying Time**

Sonoflow will accept foot traffic in 3 to 4 hours. Under normal conditions, floors can be covered within 24 hours. Protect the pour from excessive dryout from heat and wind.

**TECHNICAL DATA**

**Set Times**

- Initial set: Less than 2 hours at 70°F, 50% humidity
- Final set: Less than 3 hours at 70°F, 50% humidity

**Order Information Packaging**

- Sonoflow -- 50 lbs. powder
  - Sonoflow Primer 100 and Primer 150 -- 1 gal. pails, 4 pails per carton, 5 gal. pails
- Color**
- Primer 150: mint green
  - Primer 100: light blue
- Coverage**
- A 50 lb. bag will cover approx. 45 sq. ft. at 1/8" thickness
  - Cured Sonoflow produces a bulk density of 120-125 lbs. per cubic ft.
  - 50 lbs. of Sonoflow mixed with 5 1/4 quarts of water yields approximately 0.46 cu. ft of material
  - With aggregate extension, a 50 lb. bag and 25-50 lbs. of 1/8" course graded washed sand yields 0.64-0.69 cu. ft. of mortar

Compressive Strength (ASTM C 109)	
Number of Days	Psi (MPa)
1	2700 (18.6)
3	3100 (21.4)
7	3600 (24.8)
28	4400 (30.3)

Flexural Strength, (ASTM C 348*)	
28 Days, psi (MPa)	1000 (6.9)
*Modified, cured at 70°F, 50% relative humidity	

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