

CONCRETE TOP

SELF-LEVELING UNDERLAYMENT

PURPOSE

CONCRETE TOP is a free flowing, self-leveling underlayment used to provide a smooth surface over rough, uneven concrete. It can be applied over new or existing interior concrete surfaces.

CONCRETE TOP produces a smooth, level surface without costly finishing labor. The surface is compatible with most floor coverings, including carpet and tile adhesives.

This underlayment material is fast setting, providing a walking surface in approximately 4 hours and a surface that typically accepts floor coverings in about 24 hours.

CONCRETE TOP is recommended for:

1. Correcting surface defects.
2. Exceptionally flat surfaces.
3. Rehabilitating concrete floors.

CONCRETE TOP is for interior use only and should be used only when a subsequent floor covering is to be applied.

DESCRIPTION

CONCRETE TOP is a single component, cement-based, polymer-modified material that exhibits superior flow and excellent bonding characteristics.

Unique flow characteristics give CONCRETE TOP self-leveling properties from $\frac{1}{16}$ " to 4" (.15 to 10.2 cm) in thickness.

PACKAGING

CONCRETE TOP is available in 50 lb. (22.7 kg) bags or pails.

PROPERTIES

Compressive Strength (ASTM-C-109)

psi	MPa	
1700	11.7	(at 1 day)
3500	24.1	(at 7 days)
4200	28.9	(at 28 days)

Initial Set (ASTM C-191)

1 hour, 15 minutes

Final Set (ASTM C-191)

1 hour, 30 minutes

Self-Leveling Working Time

20 minutes at 70°F (21°C)

Flexural Strength (ASTM-C-348)

psi	MPa	
400	2.8	(at 1 day)
720	5.5	(at 7 days)
1200	8.3	(at 28 days)

COVERAGE

CONCRETE TOP provides 47 to 50 ft² at $\frac{1}{8}$ " (4.4-4.6 m² at .3 cm) thickness per 50 lb. (22.7 kg) bag.

SURE BOND (as primer) provides 400-500 ft²/gal (9.8-12.3 m²/L) after dilution 1:1 with water.

Actual coverage will vary slightly depending on the amount of water, type of mixing equipment, temperature and other field conditions.

APPLICATION

Storage: Opened bags should be used immediately or discarded. Material should be stored in a cool, dry environment.

Preparation: Clean all concrete surfaces of adhesives, oil, dirt, sealers and loose material. Use a suitable Symons repair material to repair all cracks and defects in the concrete surface. Concrete surfaces must be dry and primed before CONCRETE TOP is applied.

Methods: Basic application is as follows:

1. Repair damaged surface areas with Symons FAST SET 20 or other appropriate patching material.
2. Clean concrete surface of all dirt, debris and dust to expose sound concrete surface.
3. Carefully plan the work sequence. Each area must be started and completed as a single placement. Openings and doorways may require an edge form to contain material.
4. Prime the concrete surface with SURE BOND diluted 1:1 with water. Brush material into the concrete surface and allow to dry, waiting at least 3 hours at 70°F (21°C), but no longer than 3 days.
5. Slowly pour material into a mixing container holding 5.5 quarts (5.2 L) of cool, clean water. Use a low RPM (650 rpm or less) mixer and thoroughly blend material. Measure water carefully, a "yellow film" in the mixing container indicates excess water.
6. Pour or pump the mix evenly over the area. Be sure to use enough material to cover high spots and fill low areas. Materials will move freely during the 20 minute working time.
7. Placement should be made within 20 minutes of mixing, consistent and continuous over entire area. Special tools designed for placing are available, no finish troweling is required.
8. Applications from $\frac{1}{16}$ " (.15 cm) to 4" (10.2 cm) in thickness are possible without shrinking, cracking or spalling. Curing compounds are not required and are not recommended.
9. Applications greater than 1½" (3.9 cm) must be extended 30% by weight with clean, $\frac{3}{8}$ " pea gravel.
10. When ambient temperature in the repair area is above 90°F (32°C), the mixing water should be cooled. Refer to ACI 305 Hot Weather Conditions.

11. When ambient temperature in the repair area is below 50°F (10°C), the mixing water should be warmed. Refer to ACI 306 Cold Weather Conditions.
12. A properly applied CONCRETE TOP will accept floor coverings in approximately 24 hours.

Unusual applications or conditions may require the technical assistance of a Symons representative.

CLEAN-UP

Clean tools and equipment with water.

LIMITATIONS

Recommended for interior use only. Do not use as a wearing surface subject to heavy abrasion or traffic.

Do not install below 40°F (4°C) and use cool water when ambient temperatures are above 90°F (32°C).

SHELF LIFE

Shelf life of properly stored material is one year.

PRECAUTIONS

It is mandatory to take the following precautions to protect workers and the public:

1. KEEP OUT OF THE REACH OF CHILDREN.
2. Contains free silica and may cause delayed lung injury (silicosis). Avoid inhalation of dust and ensure adequate ventilation.
3. Avoid contact with skin. Protective clothing is recommended. Contact areas should be thoroughly washed with soap and water.
4. Avoid contact with eyes. Protective goggles are recommended in case of splashing. Flush eyes with water if contact occurs.
5. Avoid ingestion of material. If ingestion occurs, contact poison center or physician.

Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

WARRANTY

Symons warrants, for 12 months from the date of manufacture, or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Symons, the product is free of manufacturing defects and conforms to Symons' published specifications in force on the date of acceptance by Symons of the order. Symons shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Symons instructions in this technical data sheet.

The purchaser must examine the product when received and promptly notify Symons in writing of any nonconformity before the product is used, or no later than 30 days after such nonconformity is first discovered. If Symons, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the nonconforming product, refund the purchase price or issue a credit. This is the sole and exclusive remedy for breach of this warranty.

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