

CONCRETE TOP HD

HEAVY DUTY SELF-LEVELING FLOOR TOPPING

PURPOSE

CONCRETE TOP HD is a self-leveling floor topping designed to provide a smooth surface over rough, uneven concrete. It can be applied over new or existing interior concrete surfaces.

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

CONCRETE TOP HD is fast-setting, providing a walking surface in approximately 4 hours and light traffic surface in approximately 24 hours.

CONCRETE TOP HD is recommended for:

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

DESCRIPTION

CONCRETE TOP HD is a single component, cement-based, polymer-modified material that exhibits superior flow and excellent bonding characteristics (no other admixtures are required).

Unique characteristics give CONCRETE TOP HD self-leveling properties from ¼" to 4" (.6 to 10.2 cm) surface thickness.

PACKAGING

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

PROPERTIES

Compressive Strength (ASTM-C-109)

psi	MPa	
3000	20.7	(at 1 day)
5000	34.5	(at 7 days)
7000	48.3	(at 28 days)

Initial Set (ASTM-C-191)

1 hour, 5 minutes

Final Set (ASTM-C-191)

1 hour, 30 minutes

Self-Leveling Working Time

15 minutes at 68°F (20°C)

Flexural Strength (ASTM-C-348)

psi	MPa	
600	4.1	(at 1 day)
800	5.5	(at 7 days)
950	6.6	(at 28 days)

COVERAGE

CONCRETE TOP HD provides 22 to 23 ft² at ¼" (2.04-2.14 m² at .6 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 HD 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 do not wait longer than 3 days.
5. Slowly pour material into a mixing container holding 4.0 quarts (3.8 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 15 minute working time.
7. Placement should be made within 15 minutes of mixing. Placement should be consistent and continuous over entire area. Special tools designed for placing are available, no finish troweling is required.
8. Applications from ¼" (.6 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. CONCRETE TOP HD must be extended up to 30% by weight with ¾" clean pea gravel. This is required in layer areas greater than 1½" in thickness.
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 HD will accept floor coverings in approximately 24 hours.

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

CLEANUP

Clean tools and equipment with water.

LIMITATIONS

Recommended for interior use only. Protect from excessive drying due to heat and wind.

Do not install below 40°F (4°C). 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. 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.

Only a Symons officer is authorized to modify this warranty. The sales information on the Symons website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

LIMITATION OF LIABILITY

Symons shall not be liable, in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injuries), or economic losses of any kind; or for any special, incidental, indirect, consequential, special, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if Symons could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

MANUFACTURER

Symons
2400 Arthur Avenue
Elk Grove Village, IL 60007
General: 847-298-3200
FAX: 847-635-9287

www.symons.com
info@symons.com
Technical: 877-854-0643
Fax: 913-279-4806

© 2009