

# SPECFLOW

Premium self-leveling underlayment



## DESCRIPTION

SPECFLOW is a cement based, non-shrinking, self-leveling floor underlayment designed for interior use. This single component product produces a smooth subfloor that will accept floor coverings in as little as 12 - 18 hours after installation. Just mix SPECFLOW with water, pour or pump, and it will seek its own level to produce a smooth, flat hard surface

## FEATURES/BENEFITS

- SPECFLOW, when properly mixed, produces a flowable underlayment with a flow time of 20 minutes at 70°F.
- Can be featheredged without fear of chipping or spalling.
- Self-leveling, requiring no troweling
- Can be pumped
- Produces a smooth, blemish free surface, requiring no grinding or sanding
- Is compatible with subsequent adhesives for carpet, tile and the like.

## APPLICATION

SPECFLOW can be applied in thicknesses ranging from a featheredge up to 2". It can be installed up to 5" in thickness with the addition of pea gravel. SPECFLOW will develop a superior bond to the substrate and will normally accept foot traffic within 2 to 4 hours depending upon heat, humidity and other jobsite conditions.

**PURPOSE:** SPECFLOW can be used to level or smooth interior floors. It can be used on new construction projects to correct rough, unfinished, or uneven floors.

**PREPARATION:** To prepare surface, follow all standard ACI recommendations. Remove all dirt, gas, oil, grease, asphalt, paint, curing compounds, and all loose surface materials. Concrete substrates should be profiled to a minimum CSP#3, shot blasting is preferred.

**PRIMING:** Prime all surfaces with SpecPrime at approximately 100 - 150 sq. ft. per gallon. Apply with a brush or broom, NOT a roller. Coverage will depend upon the condition and texture of the surface. Very porous surfaces will require two applications of primer. Allow SpecPrime to dry before applying SPECFLOW

**MIXING:** Pour 5 1/2 quarts of water into a mixing container, then add one 50 pound bag of SPECFLOW. With a blending paddle attached to a heavy duty drill (650 rpm), mix for 2 to 3 minutes until mixture is smooth and free of lumps. For pumping applications, mix for one to two minutes in the pump's mixing tank. Do not over water or re-temper. SPECFLOW can be extended by adding 15 pounds of clean 3/8" pea gravel for each 50 pounds of

product. First mix SPECFLOW as provided in earlier instructions. During the last minute of mixing, add the required aggregate. Should a finish coat be required, apply a non-extended layer of SPECFLOW. Allow the 1st layer to harden and re-prime the first pour with another layer of SpecPrime.

**INSTALLATION:** Pour SPECFLOW over the substrate spreading the material with a long handled spreader. SPECFLOW can be pumped using an appropriately sized grout pump. For more information on grout pumps and pumping, please contact SpecChem.

No troweling is necessary. SPECFLOW will level itself during the first 20 minutes at 70°F, and will accept foot traffic in 2-4 hours depending upon jobsite conditions. We recommend wearing cleated shoes when installing SPECFLOW. Under normal conditions, floor coverings can be installed in 12 to 18 hours, depending upon job site conditions. All flooring adhesives compatible with concrete may be used on SPECFLOW.

Do not install SPECFLOW when the average daily temperature is less than 40°F. During hot weather, work quickly and use cold water for mixing, as the average working time will decrease.

**DRYING TIME:** SPECPRIME - 3-4 hours at 70°F and 50% relative humidity

## TYPICAL TEST DATA

| Set Time at 70°F (ASTM C-266)       |                           |
|-------------------------------------|---------------------------|
| Initial Set                         | 50 min                    |
| Final Set                           | 80 min                    |
| Compressive Strength (ASTM C-109)   |                           |
| 1 day                               | 3000 psi                  |
| 7 days                              | 4500 psi                  |
| 28 days                             | 5500 psi                  |
| Bond Strength (ASTM C-882 modified) |                           |
| 14 days w/ Spec Prime               | 1000 psi                  |
| Flexural Strength (ASTM C-348)      |                           |
| 28 days                             | 1150 psi                  |
| Yield/Density                       |                           |
| Yield per bag                       | .50 cu-ft (125 lbs/cu-ft) |



1511 Baltimore Ave, Suite 600  
Kansas City, MO 64108

www.specchemllc.com

866.791.8700

## APPLICATION- WOOD FLOORS

SPECFLOW can be applied over wood floors however the following substrate preparation is essential.

**SURFACE PREPARATION:** Wood subfloors must be solid hardwood flooring a minimum of  $\frac{3}{4}$ " thick. The wood floor must be solid and securely fixed to provide a rigid base that ensures no flexing. Any areas showing any movement must be re-nailed. The wood floor must also be completely free clean, free of any wax, dust, grease and any contaminants that could possibly interfere with adhesion.

**PRIMING:** Wood subfloors also require priming with SpecPrime, follow all instructions in regards to priming as stated on the Technical Data Sheet. Porous wood floors may require a second application of SpecPrime. Allow the primer to dry between applications. Once the SpecPrime is applied, install galvanized, expanded metal lath mesh, stapling every 6 inches. Overlap adjacent pieces of lath mesh by approximately 1 inch. After the lath mesh is placed, allow the Spec Prime to dry thoroughly. The metal lath can be installed while the primer is drying, however, do not walk or stand on the wet primer. Allow the primer to dry.

## LIMITATIONS/PRECAUTIONS

Do not allow SPECFLOW to freeze. In adverse temperatures, follow ACI recommendations for hot/cold weather concreting practices. Use only potable water for mixing.

SpecFlow is adhered with SpecPrime, a re-wettable primer. Therefore do not use in areas where frequent water contact or a continuous wet environment exists. Concrete should be free of hydrostatic pressure and vapor transmission rates should comply with finish flooring manufacturers requirements. Concrete should be a minimum 3000 psi.

Minimum surface and ambient temperature of 45°F and rising is required at the time of application. For optimum results, condition material to between 65°F and 85°F.

**Caution:** Contains Portland Cement and sand. Cement will cause irritation. Avoid contact. A dust respirator, safety goggles, and rubber gloves are recommended. Avoid prolonged contact with clothing. In case of contact with eyes, immediately flush with water for at least 15 minutes. Get prompt medical attention. Do not wear contact lenses when working with this product. DO NOT take internally. Keep out of reach of children.

Avoid hazards by following all precautions found in the Material Safety Data Sheet (MSDS), product labels, and technical literature. Please read this information prior to using the product.

## PACKAGING

50 lb bag

**Coverage:** approx 24 sq-ft @ 1/4"

## CLEAN UP

Tools, pumps, and equipment may be cleaned with water before SPECFLOW hardens.

## SHELF LIFE

Shelf life of unopened bags stored in a dry facility is 12 months. Excessive temperature differential and/or high humidity can shorten the shelf life expectancy. Store in a cool, dry area away from direct sunlight.

## WARRANTY

### NOTICE-READ CAREFULLY

#### CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

#### WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

#### INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.



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