

# SPECFLOW LW



Super Light weight, Calcium Aluminate based  
self-leveling underlayment designed for lightweight applications

## DESCRIPTION

**SpecFlow LW** is a Calcium Aluminate based, interior, self leveling underlayment designed specifically for applications where the weight of conventional self leveling underlayments will exceed the allowable load.

**SpecFlow LW** can be used to create a flat or level floor and does not require the addition of lightweight beads or need to be capped with conventional material prior to the installation of finished floor covering.

**SpecFlow LW** can be applied from a feather edge up to 2" in one lift and can receive finished floor covering in as little as \*16 hours. For thicker applications, multiple lifts can be placed up to a 6" maximum thickness.

## FEATURES/BENEFITS

- Ideal for both pumping and barrel mixing applications
- Super Lightweight, only 65 lbs. per cu. ft.
- Does not need the addition of lightweight aggregate
- **SpecFlow LW** does not contain any Polystyrene, Vermiculite or water retaining aggregate.
- Does not need to be capped with conventional material
- Maintains healing properties for up to 20 minutes
- Water resistant - Non Gypsum Based
- Can be applied over substrates up to 90% RH per ASTM F2170
- LEED compliant product -contributes points to LEED Certified Projects
- No dangerous emissions or irritating fumes
- Calcium Aluminate based for rapid strength gain and reduced shrinkage
- Will not harbor or support Mold or Mildew

## APPLICATION

### SURFACE PREPARATION:

**SpecFlow LW** should only be installed over substrates with a direct tensile bond test reading of 72 psi or greater per (ASTM C-1583-04). Do not install over Gypsum underlayment. SpecFlow LW is not a wear surface Concrete & Non Porous: Surface must be dry, sound, clean, free of oil, wax, sealers, paint, dirt, gypsum or latex patches, asphalt, urethanes, adhesives, loose material and any contaminate that may act as a bond breaker. Weak surfaces must be cleaned by mechanical means such as chipping, shot-blasting or grinding. DO NOT use Acid, Chemical Cleaners or Mastic Removers on any surface to which a SpecChem product will be applied. Non Porous surfaces must be abraded to a dull finish. All surfaces must be minimum 50°F.

NOTE: **SpecFlow LW** is not a vapor barrier and will allow the free passage of moisture. Always follow the guidelines of the Finished Flooring Manufacturer concerning maximum allowable sub-floor (RH) per ASTM F-2170 and (MVER) per ASTM F-1869. If level exceeds Flooring Manufacture's limitations use CMP V-20 Plus or V-25 before applying **SpecFlow LW** or any other SpecChem product.

## APPLICATION (cont.)

### SURFACE PRIMING:

Concrete: All substrates must be clean and dry before primer is applied. Dilute AS-100 Primer 1 part AS-100 to 1 part clean potable water. Primer must be applied evenly using a nylon push broom with exploded tips and should be worked into surface. Apply a thin coat leaving no bare spots, puddles or excess primer. Broom out any puddles that form as primer begins to dry. Allow to dry to a clear, thin film approximately 1-2 hours.

Highly Porous Concrete: Apply an initial primer application diluted 3 parts water to 1 part AS-100. Apply using same methods and allow to dry 1 hour minimum prior to applying the second coat diluted 1 part water to 1 part AS-100. Maximum open time for primer is 24 hours.

Non-Porous Subfloors: Apply one coat of undiluted AS-100 using a 3/8" nap roller. Apply a thin film, leave no puddles or bare spots. Allow primer to dry. (min 2 hrs, max 24 hrs)

### MIXING:

Mix 3 bags of **SpecFlow LW** at a time. For each bag add a maximum of 5.0 quarts of clean cool water into a mixing drum. Add bags of **SpecFlow LW** while mixing at full speed using a CMP mixing wand with a heavy duty 1/2" drill (min. 650 rpm). Mix completely for approximately 2 minutes or until lump free. Do not add any additional water. Keep mixing wand immersed in material to avoid entraining excess air.

## TYPICAL TEST DATA

Set Time at 70°F (ASTM C266)	
Initial Set	20+ min
Final Set	60 min
Compressive Strength (ASTM C109)	
1 day	2500 psi
7 days	3500 psi
28 days	4500 psi
Yield/Density	
Yield per bag	1/4" : 20 sq. ft. per 25 lb.



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## APPLICATION (cont.)

### MANUAL APPLICATIONS:

Expansion joints must be reflected through **SpecFlow LW**.

Immediately pour the blended **SpecFlow LW** on the floor and disperse with a CMP GR-1 gauge rake followed by smoothing the material with a CMP S-1 smoothing paddle. Plastic athletic type cleats should be worn when using smoother to avoid leaving marks. **SpecFlow LW** will maintain its workability and leveling properties for up to 20+ minutes.

### PUMPING APPLICATIONS:

Deep placements and large projects are more efficiently installed with the use of a pump. Contact SpecChem for instructions, recommended pumping procedures and approved equipment.

### DEEP FILL APPLICATIONS:

Due to its unique lightweight technology **SpecFlow LW** it is often poured deep. If barreling, blocking will be necessary to contain the very fluid material in manageable sized sections. The blocking can be pulled as soon as the material takes its initial set. Covering the blocking material in Duct Tape will prevent the **SpecFlow LW** from adhering. If the area is being "Leveled", use CMP Leveling Pins and a CMP Auto-Level or rotary laser to set pin heights. Normally the pins are set in a grid pattern anywhere from 3 to 5 feet apart depending on the tolerance of level trying to be achieved. The Leveling Pins should remain in the applied cement.

Keep the base pours approximately 1/4" to 3/8" inch below the tops of the pins. The final finish coat will move quickly and leave the best surface. Base pours cannot exceed 2" in a single application. After applying a base pour, wait 12-16 hours and re-prime the surface with one coat of AS-100 diluted 1 part AS-100 to 1 part Water as outlined in SURFACE PRIMING: If additional pours are required, repeat process to a maximum of 6".

### APPLICATION NOTES:

1. During application and for first 24 hrs, prevent excessive air movement but maintain adequate ventilation.
2. Protect material from direct sunlight. These variables can cause uneven curing patterns a false set and cracking.
3. **SpecFlow LW** is self-curing no wet curing methods or cure and seals should be used.
4. Cooler temperatures, Higher humidity and Inadequate ventilation can extend drying times.

## PACKAGING

25 lb. bag : 100 per pallet

1500 lb. Super Sack : 1 per pallet

## CLEAN UP

Clean with water immediately after use

## SHELF LIFE

Store in cool, dry area at 70° for 6 months.

## 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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