

# SKIMFLOW® ES



## DESCRIPTION

SKIMFLOW® ES is a modern formula Portland and Aluminate cement based self-leveling underlayment, which is fortified with latex polymer used to level or smooth most properly prepared substrates. Extended working time (30 minutes) allows a more consistent finish by alleviating seams or cold joints, which may occur when using products having less working time. It leaves a finished surface, which can withstand temporary construction traffic, that is ideal for most floor covering systems.

## APPLICATIONS

- Polymer latex fortified SKIMFLOW® ES excels at leveling large area
- Surface such as concrete, well-bonded abraded mortars and ceramic tiles can be prepared for the installation of carpet, resilient floors, wood parquet, slate, ceramic tile, marble, granite, or stone veneer floors
- Properly prepared exterior grade plywood, cement board, anti-fracture membranes, insulating panels and other approved board underlayments may be covered

## FEATURES AND BENEFITS

- Long working time – approximately flowable 30 minutes
- Pours up to 1-1/2" thick
- Excellent healing properties – self healing
- Depth may be extended with aggregate
- Withstands construction/renovation traffic
- An economical solution to a smooth level floor
- Superior heal
- Longer working time
- Thicker/deeper pours
- Aluminate cement promotes better flowability

## PACKAGING

### SKIMFLOW® ES

- 55 lb (25 kg) double wall bag

### PRIMER SL™

- 5 gallon pail (18.93 L) with pour spout
- 1 gallon bottle (3.78 L) with pour spout

## PHYSICAL CHARACTERISTICS

### Working Time:

Approximately 30 minutes

### Set Time:

1-2 hours

### Ready for covering:

8-24 hours

Minimum thickness at 70°F (21°C)

### Compressive Strength:

4100 psi (28 MPa)

### Flexural Strength:

1200 psi (6 MPa)

### Tensile Strength:

420 psi (3 MPa)

### Coverage:

55 sq. ft. per bag at 1/8" thickness

### Yield:

0.552 cu. Ft. per bag (0.015 M<sup>3</sup> per bag)

### Maximum thickness:

1-1/2" (38 mm) per layer

### Minimum thickness:

About 1/8" (3 mm)

### Mix Ratio:

55 lb. bag to 6.5 quarts of liquid

### Application Conditions:

Surface and product must be over 50°F (10°C) and application must not freeze for 7 days.

### Color:

Medium gray

### Admixtures:

Cool, clean water

### Priming: PRIMER SL

PRIMER SL coverage is 1 gallon per 250-300

sq. ft. (3.78 L per 32.5 m<sup>2</sup>)

*All specifications were tested in laboratory conditions: 70°F in a controlled environment using our approved water content. Changing the temperature, or mixing ratios, or the environment can effect these specifications. Call Technical Services if you have any questions.*

## LEED CREDIT

AREA	CREDIT	CATEGORY	HOW
Indoor Environmental Quality	EQ 4.2	Low Emitting Materials	Zero VOC
Materials and Resources	MR 4.1-4.2	Recycled Content	5%
	MR 5.1	Regional Manufactured Material	Cleveland, OH
	MR 5.2	Regional Materials	30%

## PREPARATION AND APPLICATION

### SURFACE PREPARATION

For best performance and to maintain guarantee, DEPENDABLE PRIMER SL must be used on all surfaces. (Use of other primers voids all warranties.) All supporting surfaces shall be structurally sound, solid and stable. They shall be free of dust, oil, grease, paint, tar or other contaminants that may act as a bond breaker. Application over textured surfaces will give the best bond. Concrete that has been steel trowelled should be scarified or bead blasted to give a suitable bonding surface.

Properly prepared exterior grade plywood may be covered, but may require reinforcement to increase flexural strength. Use Dependable's KEDELATH to reinforce. Consult technical assistance for details.

A test patch for adhesion should be performed if the installer is in doubt. Before starting installation, establish the level around the area to be filled with a transit, level or laser device. Mark a "do not exceed" level around room or area perimeter by snapping a line or marking a minimum level by setting coated nails or screws just below the level to be achieved.

Subsurface must be essentially watertight, as SKIMFLOW ES is extremely flowable. Make sure any holes, cracks, etc. that would permit material through to a lower level are patched or filled with DEPENDABLE SKIMCRETE XL prior to priming.

### Priming

Using a long-handled roller, soft bristle broom or paint brush apply PRIMER SL, full strength at a rate of 250-300 sq. ft. per gallon. Evenly coat the entire surface. Allow to dry and become tacky (about 1 hour). Do not apply in excessive amounts and avoid puddling or pooling. PRIMER SL must be dry and tacky before covering.

### Mixing

Use a clean mixing container, pour in proper amount of clean, cool water, and add powder slowly. Water/powder ratio is 6.5 quarts of water to 55 pounds of powder. Start mixing, as bags are added, at slow speed (150-450 RPM) using a mixing paddle or similar tool designed to avoid air entrapment. Once material is well wetted by liquid, mixing speed may be increased to 1000-1200 RPM max. Again avoiding air entrapment, mix 2-3 minutes to a homogenous lump-free mixture. Do not shake. SKIMFLOW ES can be mixed in large quantity mortar mixers or special pumps or in smaller quantities (up to 2 bags at a time) in a 40 gallon container.

If a problem is encountered with the mixing device getting a lump and powder free mix, try starting with 2/3 of proper water, adding powder until just wetted, then adding remainder of water and thoroughly mixing. A screen may also be used in large scale mixers.

### APPLICATION

Pump or pour entire container of mix on floor after allowing air bubbles to rise to the top after a minute or two. Do not over-water, and do not re-temper or add water. Dependable SKIMFLOW ES underlayment is highly flowable for 25-30 minutes at 70°F (21°C). It can be moved with a screed set to an appropriate depth. Material can be worked or walked through after 30 minutes, but may require smoothing. Once SKIMFLOW ES starts to set (about 45 minutes), stay off floor until set. If a fine edge is desired, edge should be steel trowelled after initial set but before completely hard. The underlayment hardens in 1-2 hours and is ready for floor covering within 8-24 hours. Begin at a corner of room or at a deep part of fill. Plan the pour before starting. Either work back and forth along a line of the room or from the center of the fill outwards in all directions to keep pouring against the freshest material possible. Lightly work the transition points between pours and material over or under desired depth with a screed set to the desired depth or lightweight float or straight-edge. Any imperfection can be smoothed by surface trowelling or drawing a straightedge over the surface. Direct sunlight, heat and wind can cause rapid drying of the product which may reduce working time. To avoid rapid drying, provide protection against these elements.

### LIMITATIONS

Designed for interior use. Material can be pumped, but mixing must be continuous and pump and hose should be cleaned immediately.

### Do not use...

- Where either the surface or air temperature falls below 50°F (10°C) at or within 72 hours after installation.
- When finished floor is subject to freeze (32°F or 0°C) any time within 7 days.
- Where hydrostatic pressure is present or moisture emissions exceeds level permitted for an installed floor covering.
- Over particle board, presswood, masonite, chipboard, Luaun, or similar dimensionally unstable materials or any substrate not well bonded or free of movement.
- Over metal or other gypsum floor patches and materials, petroleum or solvent residue or spills, or other contaminants.

### WARNING

#### CAUSES SKIN IRRITATION. INJURIOUS TO EYES.

Contains portland cement and silica. Do not breathe dust. Dust can cause delayed lung injury (Silicosis). Use in a well ventilated area or wear a properly fitted NIOSH/MSHA approved respirator. Avoid eye contact. In case of eye contact, flush with water a minimum of 15 minutes. Consult a physician immediately. Avoid prolonged contact with skin. Wash thoroughly after handling.

### NON-TOXIC and NON-FLAMMABLE

Keep container closed and keep away from children. May cause slight eye abrasion or irritation if spilled or rubbed in eyes. Flush thoroughly with water. If taken internally, call a physician.

Technical Assistance: Visit our website: [floorprep.com](http://floorprep.com) or call 1-800-227-3434.

24 HOUR EMERGENCY: CHEMTREC® 1-800-424-9300.

*It is always recommended that other branded products are tested with Dependable's products prior to use.*

### LIMITED WARRANTY:

**Dependable, LLC warrants to the initial purchaser only that the goods sold hereunder will be free from defects in material and workmanship and, except as otherwise set forth herein, will conform to the specifications provided. If any failure to meet this warranty appears within one year from the date of shipment of the goods, on the condition that Dependable, LLC. will correct any such failure by either replacing or repairing any defective goods, at Dependable, LLC's option.**

**The preceding paragraph sets forth the exclusive remedy for all claims based on failure of or defect in the goods sold hereunder, whether such failure or defect arises before or during the warranty period and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The forgoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.**



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