Product Data Sheet

PLATFORM™ PERFORMANCE FLOORING SYSTEMS
A KEENE INC. COMPANY

3 DIVISION

Maintenance of Concrete
03 01 00

Hydraulic Cement Underlayment
03 54 16

Platform **ELW™**

Everyday Light Weight Self Leveling Underlayment

PACKAGING

- 33 lbs (14.9 kg)

SUITABLE SUBSTRATES

(well bonded, clean, dry, sound and stable)

- Absorbent and non-absorbent interior concrete
- Properly prepared Gypsum-based underlayment (> 3000 psi)
- Exterior grade plywood
- Well Scraped adhesive residue (Excludes PSA and re-emulsifiable adhesive)
- ASTM F3010 Epoxy Moisture Membranes

Platform Everyday Light Weight (ELW) self-leveling underlayment (SLU) is a premium fast drying, calcium aluminate cementitious underlayment that reduces the dead weight load of traditional SLU's by >33% all while delivering compressive strengths > 3500 psi! Platform ELW is suitable for use in most flooring applications without the costly and time consuming need to cap with a stronger product prior to installing finished flooring.

Platform ELW is used for leveling and smoothing of floors for tile, stone, resilient, wood, carpet and other floor coverings. Platform ELW seeks its own level providing excellent working time and is able to receive breathable flooring finishes as early as 4 hours after application, non-breathable at 16 hours. Platform ELW is suitable for foot traffic after 3 hours, and light trade traffic next day.

- **ELW utilizes a high percentage of post-consumer recycled content.**
- **ELW contains a much lower percentage of crystalline silica than typical SLU's.**
- **ELW provides reduced structural dead loads.**
- **ELW makes flooring work lighter every day with a 33 lb bag providing the same yield as a traditional 50 lb bag!**

Features

- Reduced dead load – Every day.
- Lighter lifting - Every day.
- Suitable for floorcovering – Every day.
- Superior Sustainability – Every day.
- Low-Surface Prep – Every day; "Clean, Prime, Pour."
- Suitable for finished flooring every day, including tile (ceramic, mosaic, quarry, glass, porcelain, natural stone), vinyl, LVT, rubber, carpet, engineered wood & more.
- Supports Fast Track installation, finished flooring may be installed as quickly as 4 hours. *
- Exceeds TCNA requirements for installation of ceramic tiles.
- Exceptional volume stability provides relief from cracking and bond failure.
- Platform ELW can be used from feather edge up to 2" in depth neat.

**See Application Section*

*** FOR PROFESSIONAL USE ONLY**

Properties (tested @ 73°F)

Compressive Strength (ASTM C109M) (Modified – Air Cure) **mixed with 5.75 Qts Water*	24 hrs 3 days 28 days	>1600 psi >2100 psi >3500 psi
Temperature for application	50° – 90°F (10-32°C)	
Density	~ 82 lbs per ft³	
Flammability	Flame Spread 0, Fuel Contribution 0, Smoke Development 0	
VOC (Rule 1168 SCAQMD)	0 g/l	
Yield (33lb Bag)	Appx. 0.46 ft³ per bag; Appx. 22 ft² at 1/4”	
Coverage (33lb Bag)	Appx. 5.5 ft² at 1” depth	
SKU	SKU PPELW-30	
Mixing Ratio	5.5 – 5.75 US quarts per bag	
Application Depth	Feather to 2” per lift (3mm – 5cm)	
Packaging	33 lbs (14.9 kg)	
Pot Life at 70°F **Initial Set at 70°F** **Final Set at 70°F**	20 m 45 mins 120 mins	
Shelf Life	12 Months when stored in dry conditions in original, unopened package at 60° - 80°F.	

All specifications were tested in laboratory conditions: 70ºF 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 Platform ELW may contribute to LEED 4 credits in the following categories.

AREA	CREDIT	CATEGORY	HOW
Indoor Environmental Quality	EQ (3 points)	Low Emitting Materials	VOC content 0 g/l (calculated)
Materials & Resources	MR (1-2 points)	Recycled Content	>15% post-consumer recycled
Regional Manufactured Material	MR (1-2 points)	Regional Materials	Rocky River, OH
Materials & Resources	MR (1-2 points)	Material Ingredients	Reduced crystalline silica content

General Guidelines

- This product is designed for application and use in dry, properly prepared interior environ ments only. Address sources of water exposure prior to installation and avoid installation in envi ronments where ongoing moisture exposure is likely.
- For application when substrate and ambient conditions are between 50° - 90°F (10°- 32°C), for 72 hours prior to the installation and maintained within that range for 72 hours after installation.
- Protect curing Platform ELW from direct air movement across the surface of placement.
- Platform ELW does not require the addition of chemical additives. Add potable water only.
- Platform ELW will not restrict movement of moisture (RH) from the substrate to the flooring.
- Not suitable for use over Luan, plastic, fiberglass, metal, particle board, sheet vinyl, presswood, or woods not APA (exterior) rated subject to movement or swelling.
- Installation must conform to applicable local, state and federal building codes.
- Where additional reduction of dead load is desired, contact Platform Performance Flooring Systems Technical services for solutions.

Clean-up and Disposal

Wash hands and tools with water before the material hardens, or within 10 minutes of material contact to ensure easiest removal. Cured material must be removed mechanically. Dispose waste or excess material in accordance with all local, state and federal regulations. Hardened material is generally considered construction waste.

Application Procedures

Service Conditions: Service conditions that include high point loadings and soft finishes (carpet tile, specific resilient finishes) require capping (1/4" min) with higher compressive materials such as Platform FT, or Platform L3.

Substrate Condition: All Substrates must be sound, clean, dry and free of contaminants (oil, dirt, laitance, residue of curing compounds etc.) that may interfere with adhesion. Do not use solvents, acids or chemical adhesive removers to prepare the substrate. Avoid use of sweeping compounds on target substrate.

Moisture: Platform ELW will not substantially inhibit transmission of moisture to the finished flooring. When used in interior applications subject to floor coverings, follow the directions of the flooring and adhesive manufacturer to determine the maximum allowable moisture content (RH) or transmission of the substrate. If the moisture content (ASTM F-2170) or moisture vapor transmission rate (ASTM F-1869) of the substrate exceeds the requirements of the flooring system, utilize a suitable moisture vapor remediation coating that conforms to ASTM F3010. Follow instructions for placement of the Platform ELW after the Moisture mitigation has been installed directly on the substrate per associated directions.

Adhesives Residue: Remove water based or pressure sensitive adhesives (PSA) completely. Wet scrape remaining adhesive to a transparent adhesive residue.

Mechanical Preparation: Some installations (service use, site conditions) may benefit from additional mechanical surface prep to realize an International Concrete Repair Institute (ICRI) CSP 2-3 or greater. Completely vacuum all dust and debris from the substrate prior to material application.

Substrate Joints: Honor all moving joints. Complete crack and substrate repairs prior to installation. Where required, consult an engineer for required joints and crack repairs prior to installation.

Temperatures and Mockup: Maintain a minimum of 50°F prior, during the application and for 72 hours after installation. Acclimate the material to a minimum of 50°F prior to mixing. If uncertain of suitability or bond, test an inconspicuous area for compatibility and adequate bond prior to proceeding.

Surface Priming: All substrates shall be primed with Primer A/P360 per primer instructions (see associated Product Data Sheets).

Leakers: Platform ELW is very fluid, and will flow into unsealed voids. Utilize a sealant or cementitious patch like Platform Feather to seal open voids and penetrations around conduits etc..

Capping: When circumstances require capping with a smoothing course, utilize Platform FT or other approved SLU. Follow instructions for application of SLU on absorbent surfaces 16 hours after initial placement of the Platform ELW. Contact Platformperformance.com Technical Services for green capping or specific product approvals for SLU application over ELW.

Substrate Specific Preparation

Concrete

In addition to general surface preparation guidelines above, concrete must be minimum 28 days old, free of efflorescence and hydrostatic pressure. Concrete surfaces must have a tensile strength 175 psi or greater.

Lightweight Concrete/Gypsum Surfaces

Gypsum-based underlayments must be solid and structurally sound, achieving a compressive strength > 3000 psi. Remove and or repair unacceptable surfaces prior to installation. Prior to installing Platform ELW over Gypsum underlayment, it must be dry and cured to the manufacturer's specifications to accept non-moisture permeable coverings. Substrate deflection not to exceed the current industry standards. All Lightweight and Gypsum surfaces are required to be sealed and/or primed prior to leveling with Platform ELW. If the gypsum is not properly sealed, use Platform SLV to seal the gypsum following the latest technical data sheet's instructions. Gyspum and lightweight substrates are generally very absorbent and may require heavy dilution of Acrylic primers for suitable penetration (eg. 10:1, W:P).

Application Procedures

Platform ELW offers a variable water ratio to aid in material placement and design flexibility.

- Start with clean, sized mixing container and potable water.
- Place designated mixing water (5.5 – 5.75 US quarts per 33 lb bag) in mixing container.
- DO NOT OVERWATER. Overwatering will reduce compressive strength.
- Add Platform ELW to the designated water and mix for 2.5 - 3 minutes with a power drill/mechanical mixer >650 RPM. Material must be homogenous and lump-free prior to placement.
- Pumpability: Platform ELW is generally not suitable for use in a continuous mixing (mix/pump) SLU pump. It may be used in dual stage mix/pumps where it is first mixed wet, and once mixed wet pumped up to 150 ft by hose. Avoid placing hoses is such a fashion to increase back pressure.

Once material is mixed, pour onto floor and spread to depth with a gauge rake or other. Once at desired depth, use a porcupine roller (spike length to exceed 2.5x the pour depth) to break surface tension and to create smooth material transitions. A smoother may also be used to break surface tension.

Always pour additional materials into existing materials on the substrate along the wet edge of the placement – “keep a wet edge.” Where depths greater than 2” are desired, utilize a two lift system. Contact Technical services for details. Platform ELW performs best when final smoothing is achieved within 12-15 minutes of placement.

Dry Time Prior to Flooring Installation

Platform ELW is self-drying. Avoid direct sunlight and direct air movement across the surface of the Platform ELW during the curing process.

Service conditions that include high point loadings and soft finishes (carpet tile, specific resilient finishes) require capping (1/4” min) with higher compressive materials such as Platform FT, or Platform L3.

Applications of breathable floor finishes (Ceramic Tile) may take place as early as 4 hours after placement.

Moisture sensitive floor coverings may be installed 16 - 24 hours after placement. Temperature and humidity will have marginal impact on drying. Provide ventilation while curing.

References

ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings

ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars

*** FOR PROFESSIONAL USE ONLY**

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.

Published technical data & instructions are subject to change without notice. Please contact Platform Performance Flooring Systems for the most current technical data, safety data & application instructions.

Technical Assistance:
Visit our website: platformperformance.com or call
1-800-227-3434

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