

Jacobsen®

Inspired flooring since 1962

Jacobsen Shaw Contract Concrete + Composed, Community LVT Flooring & NZ Building Code E3

E3 – Amendment 7 to Acceptable Solution E3/AS1 for Internal Moisture

Amendment 7 to the Acceptable Solution E3/AS1, for Clause E3 Internal Moisture of the New Zealand Building Code came into force on 3 November 2021, with the previous Amendment 6 expiring on this date. Amendment 7 was effective from 5 November 2020, however, was subject to a one-year transition period.

One of the main changes is that Amendment 7 now includes the reclassification of dishwashers and washing machines as Sanitary Appliances and basins and sinks as Sanitary Fixtures. There is a requirement for ensuring flooring solutions which must now have a finish that is both impervious and easily cleaned extending at least 1.5 metres from all sanitary fixtures and appliances.

Independently Tested –

Jacobsen Shaw Contract Concrete + Composed, Community LVT Flooring is an E3 Alternative Solution

Independently tested in New Zealand by SGS Industrial Certification Services, a 48-hour water spill test showed that there was no noticeable change to the Jacobsen Shaw Contract Concrete + Composed, Community LVT Flooring and that there was no water penetration through to the flooring substrate when installed using the following method:

- Substrate Flooring Membrane: If required, substrate to be protected by Uzin PE414 BiTurbo Blocking Primer to act as a barrier against moisture penetration.
- Jacobsen Shaw Contract Concrete + Composed, Community LVT adhered to the substrate using Uzin KE68T 1-Component Hybrid Adhesive.
- All perimeter edges and penetrations to be sealed with a MS Silicone.

Notes:

- A membrane is only required in a defined wet area such as a bathroom or shower room, however, in a multilevel residential building this should be a consideration.
- In a kitchen/scullery area the Uzin KE68T Hybrid Adhesive provides a sufficient barrier against moisture penetration to the substrate.
- If required a suitable levelling compound will be recommended by Jacobsen and Uzin.

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Installation and Maintenance

Installation and maintenance are to be carried out following the Shaw Contract Installation and Maintenance guide for SPC products attached except for the alterations highlighted above.

The following documents are attached:

SGS Industrial Report/Certificate

Shaw Contract – Datasheets, Installation, Maintenance and Warranty. Also, Datasheets for Uzin PE 414 Blocking Primer and KE 68T Hybrid Adhesive.

Further Information

For further information please contact Jacobsen via phone 0800 800 460

Or refer to the Jacobsen website <https://jacobsen.co.nz/contact/>

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TEST CERTIFICATE No.: INZ74452-05A

Client: Jacobsen Creative Surfaces
 Order No.: BD112021
 Sample Description: Luxury Vinyl Tile (Glue Down)
 Identification: Shaw Concrete + Composed, Community (48 hours)
 Material Specification: Not specified
 Tested in accordance with: Client Instruction

Scope: SGS was engaged to test the leakage potential of flooring sample supplied.

Methodology: The sample was prepared by the client (assembled wood with transparent underside) and sent to SGS. Two 5cm diameter areas were selected and sealed off by SGS then exposed to 5cm³ water with coloured food dye and left to soak for 48 hour at 23°C and 75% R.H. No refill required if dyed water evaporated or drained. After 48 hour duration, any remaining dyed water was removed and the underside of the flooring inspected for signs of leakage.

Results: No leaking was observed from the transparent underside



Fig 1. Test setup

Acceptance Criteria: Report findings

Tested by: K. Chin	Reviewed By: Alistair Remington	Authorised By: Kelvin Chin
Date: 17-Dec-21	17-May-22 <i>Alistair Remington</i>	17-May-22 <i>Kelvin Chin</i>

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**JACOBSEN
BRINGS YOU**

**Concrete +
Composed**

Luxury Vinyl Tile Residential & Commercial

Suitable for all residential and commercial applications such as:

- > Healthcare
- > Retail
- > Education
- > House
- > Workplace
- > Cafe
- > Restaurant

Technical Data

Characteristic	Standard	
Construction	ATSM F1700	LVT Class III, Type B
Surface Treatment	ExoGuard™	
Overall Thickness	EN ISO 24346	5.5mm
Wear Layer Thickness	EN ISO 24340	0.51mm
Residual Indentation	ATSM F1914	Pass
Dimensional Stability	EN ISO 23999	Pass
Colour Fastness to Light	ATSM F1515	Pass
Castor Chair Test	EN ISO 4918	No Change
Critical Radiant Flux	EN ISO 9239-1	6.5 kW/m ²
Chemical Resistance	ATSM F925	Pass
Slip Resistance	AS 4586:2013	SRV 37
Acoustic Impact Sound Reduction	ASTM E492	21dB

Concrete



Forged - V2 Misty Quart - V2 Tempered - V3

Composed



Bison - V2 Buckeye - V4 Cascade - V3 Chalet - V2



Grand Teton - V4 Spice - V4 Stoney Oak - V3

Variation Guide

V1 - Uniform V2 - Slight V3 - Moderate V4 - Substantial
Refer to Variation Guide sheets for in-situ images

Structure

1. ExoGuard Finish

Added protection against scratching, staining and abrasion.

2. Clear 0.51mm Wear Layer

Protects against premature product aging.

3. High-Resolution Image

Creates a stunning visual with depth, it is laminated directly to the COREtec XRC core.

4. COREtec XRC Extruded Core

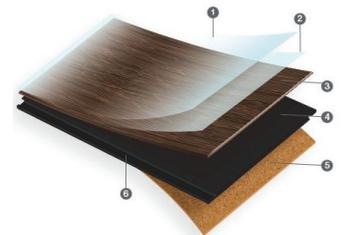
Waterproof and dimensionally stable, with a density of 1900-2000 kg/m³, the rigid core protects the top layers from indentation.

Size & Packaging

	Size (mm)	Tiles Per Pack	m ² Per Pack
Planks	1222 x 182	12	2.66
Tiles	470 x 610	10	2.87

Benefits

- Excellent acoustic reduction, 21dB.
- Can be installed glue down or floating.
- Mini micro bevelled edge.
- Fast installation with limited floor preparation.
- Immediate occupancy after installation.
- Can be installed in residential kitchens and bathrooms.



5. Attached Cork Underlayment

Provides added sound dampening from foot traffic and floor to floor sound transfer.

6. Integrated Locking Edge

Eliminates the need for wet adhesives, floating installation limits floor prep and eliminates telegraphing.

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Expression 4069V



Clay 69504



Sand 69115

Inclusive 4068V



*Amaretto 68280



Caraway 68720



*Champagne 68705



Gunmetal 68516



*Hazy 68122



*Moonlit 68120



*Morel 68540



*Washed 68125

Packaging Details

	Expression	Inclusive
Style Number	4069V	4068V
Size	182.1mm x 1220mm	
Wear Layer	0.51mm	
Edge Detail	Micro Bevel	
Thickness	5.5mm	
Pieces/Carton	12	
Coverage/Carton	2.66m ²	
Warranty	15 years Commercial Limited	

Benefits:

- Environmental Product Declaration (EPD), Floorscore
- Cork backing provides excellent acoustic reduction
- Four sided micro bevel
- In Register surface embossing
- Can be installed glue down or floating
- Immediate occupancy after installation
- Can be installed in residential kitchens and bathrooms

Luxury Vinyl Tile

Suitable for all residential and commercial applications such as:

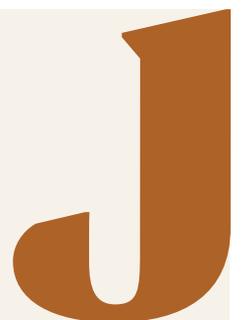
- > Healthcare
- > Retail
- > Education
- > House
- > Workplace
- > Cafe
- > Restaurant

Technical Data	Standard	Result	
Construction		Multilayer SPC with cork underlayment	
Surface Treatment		ExoGuard™	
Residual Indentation	ASTM F970	Pass	
Dimensional Stability	ASTM F2199	Pass	
Colour Fastness to Light	ASTM F1515	Pass	
Chemical Resistance	ASTM F925	Pass	
Thermal Resistance	ASTM E648	Pass	
Acoustic Impact Sound Reduction	ASTME492	21dB	
Fire Test CRF	EN ISO 9239-1:2010	6.5 kW/m ² Glue down 9.1 kW/m ² Floating	
Slip Resistance SRV	AS 4586	Expression SRV 49	Inclusive SRV 42 or 34*

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INSTALLATION GUIDE

CONCRETE + COMPOSED, COMMUNITY LVT

Thank you for choosing our flooring. When properly installed and cared for, your new flooring will be easy to maintain and will keep its great look for years. Please read all the instructions before you begin the installation. Improper installation will void the warranty.

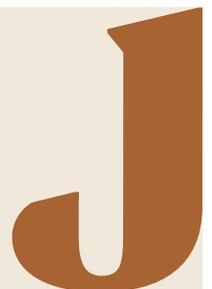
IMPORTANT NOTES

- Set out of the material is the most important part of the installation and should be done prior to starting the installation. Take your time getting this right.
- To get the correct expansion gap for a floating floor the use of spacers is recommended for the first row of planks/tiles. A 8mm spacer is the minimum recommendation. For ease of installation all skirting should be removed or left off.
- For a glue down installation measure out one row of tiles from the starting wall, drop a chalk line and install three rows of tiles/planks placing them into the wet adhesive and then roll with a heavy floor roller. This will give you a solid base for the remainder of the installation. Leave a 4-5mm gap for a glue down installation.
- The recommended adhesive for a glue down installation is Uzin KE68T with a V1 notched trowel and keep trowel notches clean at all times.
- Keep the area of the installation clean. Use a vacuum cleaner or good broom to clean the entire space. This will keep the locking mechanisms clean during the installation.
- Don't glue more of the floor area than you can cope with at one time. The planks need to go into the wet adhesive and work a heavy floor roller must be used to provide good glue transfer to the back of the material.
- Work from left to right, a row at a time, making sure each tile/plank is installed properly.
- Lightly tap down all cross joints with a rubber mallet making sure all the joints are fitted properly. Note: Don't hit the cross joints too hard as this can fracture and compromise the locking mechanism.
- Always drop chalk lines for glue lines and never glue up to the edge of the last tile. Stay back at least 10mm under the tile. This will help with the installation of the next tile to make sure it can be clicked into the locking mechanism without getting caught up in drying adhesive. This is very important.
- In areas of high heat make sure you block out direct sun light with curtains or by hanging pattern paper or similar on windows and ranch sliders.
- The use of the correct expansion gaps should always be followed. This material cannot be restricted in any way even when glued to the substrate.

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RESILIENT INSTALLATION GUIDELINES FOR SPC PRODUCTS

I. GENERAL INFORMATION

All instructions and recommendations should be followed for a satisfactory installation.

- Acclimation of material prior to installation is not required however the floor covering should be installed in a climate controlled environment with a temperature between 55° - 85°F (13°-29°C) or average temp. of 70 degrees (21.1°).
- Post installation temperature range is between 55 and 100 degrees F (13° - 37.7°C).
- Avoid exposure to direct sunlight for prolonged periods, doing so may result in discoloration. During peak sunlight hours, the use of the drapes or blinds is recommended. Excess temperature due to direct sunlight can result in thermal expansion and UV fading.
- Install product after all other trades have completed work that could damage the flooring.
 - If cabinets are to be installed on top of the flooring (including islands), that area of material must be fully adhered to the subfloor (including an additional 2'ft beyond the cabinets and islands).
- To minimize shade variation, mix and install planks from several cartons.
- Inspect all planks for damage before installing. If you have any concerns about the product fit or finish, call Shaw Information Services at 1-800-441-7429. Claims will not be accepted for flooring that has been cut to size and/or installed.
- Use cementitious patching and leveling compounds that meet or exceed maximum moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
- Installation Methods: Floating (on, above or below grade) / Glue Down (on, above or below grade)
- For installation in areas larger than 50'x 50', 2500 sq. ft. provide a minimum expansion space of 1/2" (12.7 mm) around the perimeter.
- This flooring is waterproof and reliably secures the flooring panels on all four sides. However, excessive moisture in the subfloor could promote mold, mildew, and other moisture related issues like the trapping of moisture emissions under the flooring, which may contribute to an unhealthy indoor environment.
- Additional layer of 6 mil poly film or equal vapor retarder with a perm rating of 1 or less may be used as an additional layer of protection.
- A second underlayment is allowed under any currently sold WPC/SPC Product with attached underlayment in a residential application. If installed over a second underlayment, this underlayment cannot be greater than 3 mm thick. IIC (ASTM E492-09) and STC (ASTM E90-09) lab testing on certain WPC/SPC products tested with and without a second layer of underlayment, to date, does not indicate that a second underlayment will provide additional acoustic benefit.

II. SUBFLOOR INFORMATION

All subfloors must be clean, flat, dry and structurally sound. The correct preparation of the subfloor is a major part of a successful installation. Subfloor must be flat – 3/16" in 10' or 1/8" in 6'.

A. WOOD SUBFLOORS

Do not install material over wood subfloors that lay directly on concrete or over dimensional lumber or plywood used over concrete. Refer to ASTM F1482 for panel underlayment recommendations.

1. Do not apply sheet plastic over wood subfloors.
2. Basements and crawl spaces must be dry. Use of a 6 mil black polyethylene is required to cover 100% of the crawl space earth. Crawl space clearance from ground to underside of joist is to be no less than 18" and perimeter vent spacing should be equal to 1.5% of the total square footage of the crawl space area to provide cross ventilation. Where necessary, local regulations prevail.
3. All other subfloors - Plywood, OSB, particleboard, chipboard, wafer board, etc. must be structurally sound and must be installed following their manufacturer's recommendations. Local building codes may only establish minimum requirements of the flooring system and may not provide adequate rigidity and support for proper installation and performance. If needed add an additional layer of APA rated underlayment, fasten and secure according to the underlayment manufacturer's recommendations.
4. Resilient flooring is not recommended directly over fire-retardant treated plywood or preservative treated plywood. An additional layer of APA rated 1/4" thick underlayment should be installed.

B. CONCRETE SUBFLOORS

NEW AND EXISTING CONCRETE SUBFLOORS SHOULD MEET THE GUIDELINES OF THE LATEST EDITION OF ACI 302 AND ASTM F 710, "STANDARD PRACTICE FOR PREPARING CONCRETE FLOORS TO RECEIVE RESILIENT FLOORING" AVAILABLE FROM THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, 100 BARR HARBOR DRIVE, WEST CONSHOHOCKEN, PA 19428; 610-832-9585; [HTTP://WWW.ASTM.ORG](http://www.astm.org).

1. Floors shall be smooth, permanently dry, clean, and free all foreign material such as dust, wax, solvents, paint, grease, oils, and old adhesive residue. The surface must be hard and dense, and free from powder or flaking.
2. New concrete slabs must be dry. Maximum moisture level per CaCl test method is 8 lbs. per 1000 in 24 hr. Maximum level for ASTM 2170 In-situ Relative humidity test method - 90%.
3. Do not install over concrete with a history of high moisture or hydrostatic conditions. Excessive moisture in the subfloor could promote mold, mildew, and other moisture related issues like the trapping of moisture emissions under the flooring, which may contribute to an unhealthy indoor environment. Shaw Industries does not warrant nor is responsible for damage to floor covering due to moisture related issues.
4. pH level of concrete should be between 7-10.
5. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.

NOTE: IT MAY NOT BE THE FLOOR COVERING INSTALLER'S RESPONSIBILITY TO CONDUCT THESE TESTS. IT IS, HOWEVER, THE FLOOR COVERING INSTALLER'S RESPONSIBILITY TO MAKE SURE THESE TESTS HAVE BEEN CONDUCTED, AND THAT THE RESULTS ARE ACCEPTABLE PRIOR TO INSTALLING THE FLOOR COVERING. WHEN MOISTURE TESTS ARE CONDUCTED, IT INDICATES THE CONDITIONS ONLY AT THE TIME OF THE TEST.

LIGHTWEIGHT CONCRETE

All recommendations and guarantees as to the suitability and performance of lightweight concrete under resilient flooring are the responsibility of the lightweight concrete manufacturer. The installer of the lightweight product may be required to be authorized or certified by the manufacturer. Correct on-site mixing ratios and properly functioning pumping equipment are critical. To ensure proper mixture, slump testing is recommended.

- Lightweight aggregate concretes having dry densities greater than 90 lbs. per cubic foot may be acceptable under resilient flooring.
- Concrete slabs with heavy static and/or dynamic loads should be designed with higher strengths and densities to support such loads.
- Surface must be permanently dry, clean, smooth, free of all dust, and structurally sound.
- Perform Bond testing to determine compatibility of adhesive to the substrate. Shaw 9050 primer can be utilized to promote adhesion.
- Three internal relative humidity tests should be conducted for areas up to 1000 SF. One additional test, for each additional 1000 SF.

Radiant Heat: Hydronic only - Radiant heat components must have a minimum of 1/2" separation from the product. This is the only type of radiant heat system that is approved. Radiant heat system must be on and operational for at least 2 weeks prior to installation to reduce residual moisture within the concrete. Three days prior to installation lower the temperature to 65 degrees, after installation gradually increase the temperature in increments of 5° F to avoid overheating. Maximum operating temperature should never exceed 85°F. Use of an in-floor temperature sensor is recommended to avoid overheating.

C. EXISTING FLOOR COVERINGS

Flooring can be installed over most existing hard-surface floor coverings, provided that the existing floor surface is fully adhered, clean, flat dry structurally sound and free of deflection.

- Existing sheet vinyl floors should not be heavily cushioned and not exceed more than one layer in thickness. Soft underlayment and soft substrates will compromise the product's locking ability as well as diminish its indentation resistance.
- Installation is **NOT** allowed over any type of carpet.
- Do **NOT** install over wood floors adhered to concrete.

- Never use solvents or citrus adhesive removers to remove old adhesive residue. Solvent residue left in and on the subfloor may affect the new floor covering.

III. INSTALLATION

Tools: Tape Measure, Utility Knife, Jigsaw, Tapping Block or Rubber Mallet, Pull Bar, 1/4" Spacers, T-Square, Safety Glasses, Broom or Vacuum and, if necessary, tools for subfloor repair.

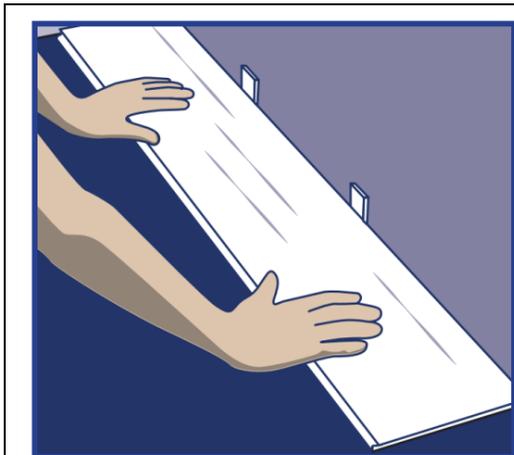
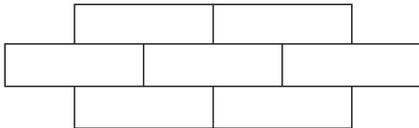
Floating Installation

WPC / SPC plank flooring is designed to be installed utilizing the floating method. Proper expansion space 1/4" (6.35 mm) is required. Undercut all doorjamb. Do not fasten wall moldings and or transition strips to the planks.

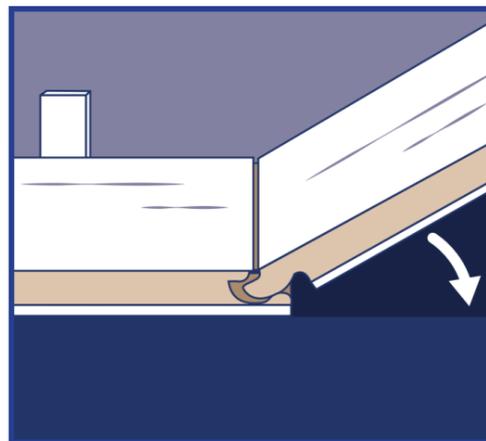
Glue Down Installation: WPC / SPC products are approved for glue down installation over approved wood and concrete substrates. Follow adhesive label application instructions. Maintain 1/4" (6.35 mm) perimeter expansion space. Refer to adhesive label for moisture limits of the adhesive.

- **With IXPE/EVA attached pad:** Shaw T-180, Shaw 200 & Shaw DP99
- **Without attached pad:** Shaw 200 (residential/multi-family), Shaw 4100 (commercial, rolling load exposure & high traffic areas)
- **Cork backed products:** Shaw 200, Shaw 4100 & Shaw 4151

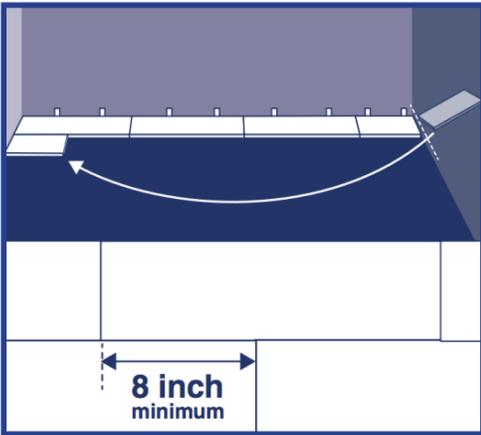
Tile patterns must be installed in a staggered (offset) brick pattern. Minimum 1/3 offset 1/2 offset is preferred.



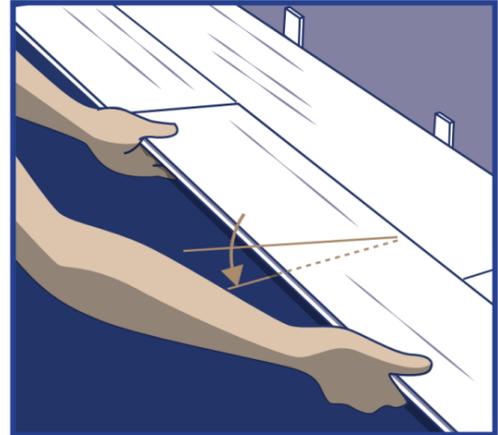
Step 1: Begin installation working from left to right. Insert spacers at ends and edges where planks meet wall.



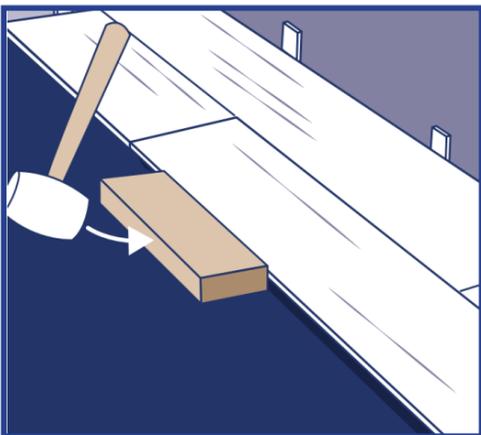
Step 2: Lock short end of plank by inserting tongue into groove at an angle and drop in place. Continue to end of first row.



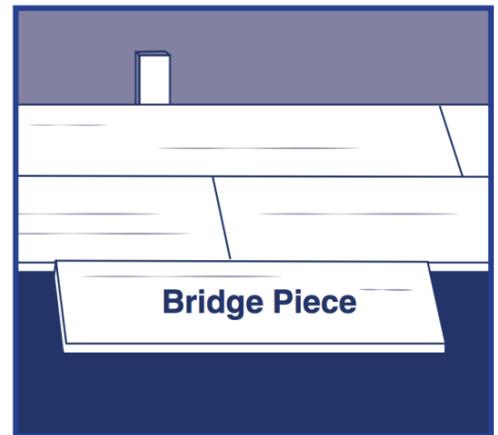
Step 3: Use leftover plank from first row as starter for second row. There must be at least 20cm between plank end joints on adjacent rows. FOR TILE INSTALLATIONS: The distance between end joints should be equal to 30cm for proper appearance.



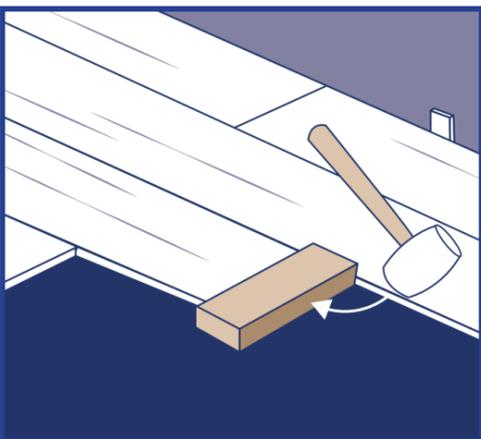
Step 4: Lock long edge of plank by inserting tongue into groove at an angle and drop in place. Slide plank toward end of previously installed plank until the tongue just touches the groove.



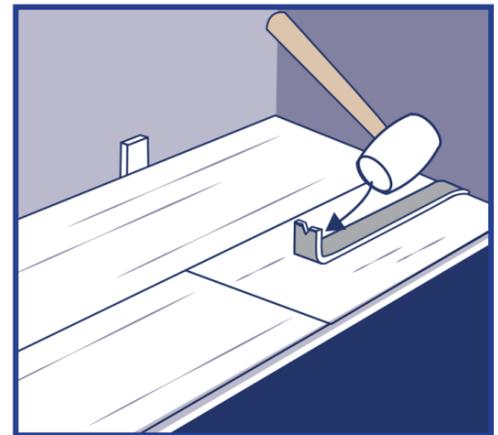
Step 5: IMPORTANT! Use hammer and tapping block to tap long edge of plank to ensure a tight fit. ANY GAPPING CAN COMPROMISE THE LOCKING SYSTEM!



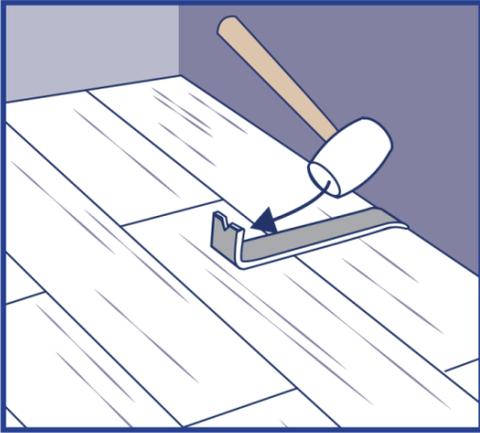
Step 6: Attach a scrap piece of floor to bridge the gap between ends of planks.



Step 7: Tap end of plank with hammer and tapping block to lock ends of planks together. Remove bridge and continue towards wall until installing the final plank in the row. BE SURE TO TAP ON EDGE OF VINYL SO AS NOT TO DAMAGE LOCKING PROFILE.

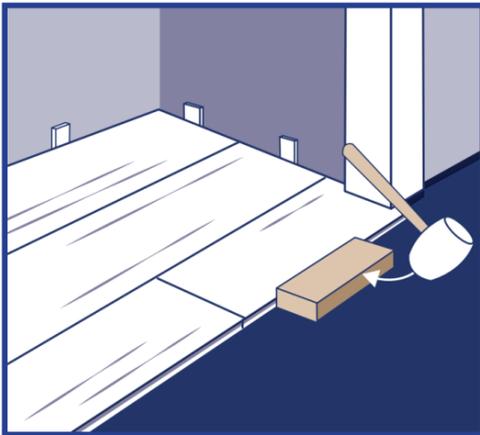


Step 8: Use hammer and pull bar to lock final piece in row. Insert spacer at end of row. Continue installation to final row.

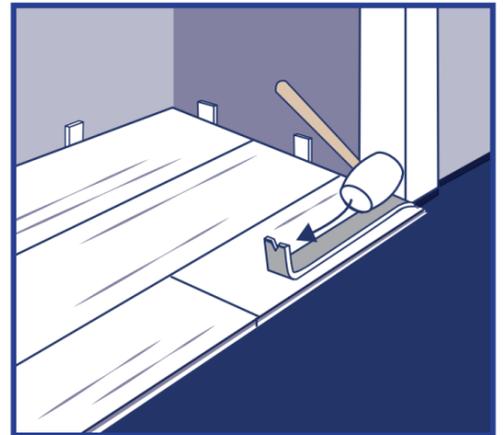


Step 9: Use hammer and pull bar to lock long edges of planks on final row.

Installing underneath door jambs:



Step 1: Undercut space under door jamb to allow plank to slide freely. Tap long edge with hammer and tapping block to lock long edge.



Step 2: Use hammer and pull bar to lock short end of plank.

Completion

1. Protect all exposed edges of the flooring by installing wall molding and/or transition strips. Make sure that no plank will be secured in any way to the subfloor.
2. For wet areas such as bathrooms caulk the perimeter of the floor with a flexible silicone caulk.
3. Protect the finished flooring from exposure to direct sunlight to reduce fading and thermal expansion.

RESILIENT MAINTENANCE CHECKLIST

Proper care of your resilient floor will help maintain the appearance and performance of your resilient floor by following recommended preventative, routine and wet cleaning guidelines.

Maintenance instructions for Shaw Hard Surface Resilient and US Floor Resilient

POST CONSTRUCTION CLEANING

- Dry mop floor using a micro fiber mop pad or appropriate floor vacuum to remove dust particulate from the floor.
- Spray neutral pH cleaner, such as Shaw Hard Surface Cleaner or Diversey Stride, onto the floor in manageable area (spray mist will dry quickly). Use a micro fiber wet mop pad to mop the floor with cleaner. If pad becomes dirty, be sure to replace the pad with a new micro fiber wet mop pad. Work floor in sections.
- Always rinse the floor with water only by mopping water to remove any remaining residue from the floor.

In the event where dry wall dust/construction dust is mopped with water only, a residue film will appear on the floor after drying. Use the process below to remove the film from the floor.

Process to remove construction residue or cloudy film from resilient flooring

- 1. Dry mop floor to remove any construction dust or exterior soil tracked onto the flooring. Use micro fiber dry mop pad. If micro fiber dry mop pad gets dirty, replace pad with a clean pad.**
- 2. Spray neutral pH cleaner, such as Shaw Hard Surface Cleaner or Diversey's Stride, onto the floor in manageable area (spray mist will dry quickly). Work floor in sections. For smooth surface, use a low rpm (175 rpm) buffer with a 3M red pad on flooring with neutral pH cleaner applied to the floor to remove the residue film. (Never Dry Buff). For embossed or textured flooring, use a cylindrical brush scrubber with red brushes and a neutral pH cleaner applied to the floor to remove the residue film.**
- 3. Using a wet micro fiber mop pad, rinse with water only to remove any remaining residue from the flooring. When wet mop pad becomes dirty, be sure to replace the pad with a new micro fiber wet mop pad.**
- 4. Repeat steps #2 and #3, if necessary.**

When the resilient flooring is cleaned properly, the floor will have the same visual as right out of the box!

PREVENTATIVE MAINTENANCE

1. Care for newly installed floors.

- Avoid heavy traffic for 24 hours.
- Proper furniture protection is required to prevent scratching and scuffing of LVT flooring. It is recommended to use industrial strength felt protection. These can be purchased from the following websites: www.1877floorguy.com, www.expandedtechnologies.com, www.flexifelt.com.
- Moving heavy objects requires protective barriers to distribute the weight such as plywood (1/4" or thicker) or heavy cardboard to prevent damage to the wear layer.
- Remove adhesive residue with a clean white cloth dampened with odorless mineral spirits or isopropyl alcohol.
- Only low moisture or damp mopping is recommended initially, if needed.
- Wait 4 days before normal wet cleaning and/or auto scrubbing the floor.
- Avoid direct sunlight on LVT flooring as it can cause fading and expansion of vinyl planks. Use window protection
- Surface temperature should not reach 140 degrees from sunlight or bed bug treatment as it would cause expansion of vinyl planks.

2. Identify and address all sources of soiling.

- Maintain a clean exterior (parking lots and walk ways) where dirt enters the building.
- Proper mats should have non-staining backing, use PVC backed matting. Use mats at entranceways, transition areas and special areas such as food service areas/restrooms to confine soil, oil, grease and high moisture areas.
- Entrance mats keep soil and moisture outside. Two matting categories are:
 - Soil Removal – used at exterior entrances to remove soil from shoes
 - Absorbent mats – used inside to minimize moisture
- Mats should cover at least 6 footsteps to capture soil transferring from shoes. Additional matting may be necessary during inclement weather. Include mats in the maintenance program and keep them clean.

ROUTINE MAINTENANCE

1. Remove dry soil.

- Sweep, vacuum or dust-mop frequently to remove soil particles that can abrade the wear layer.
- Dust mop treatments are not recommended since these products can transfer and attract soil.
- Do not use vacuums with rotating beater bars on hard surfaces.

2. Promptly address spots and spills.

- All spills should be addressed as quickly as possible to avoid staining and slip/fall hazards.
- Absorb wet spills and if necessary use a neutral pH vinyl cleaner* and rinse with water.
- Isopropyl alcohol or mineral spirits can be used for oil/grease (petroleum-based) and/or scuff marks.

3. Remove scuffs.

- Cleaning with an auto scrubber or spray buffing with a spray/buff solutions* using a low (175 rpm) machine and red pad will remove scuff marks. Agitation is the key to remove these marks.
- A tennis ball placed on the end of a stick, such as a broom handle, can be used as a tool to remove scuff marks. This allows you to remove scuffs from a standing position on smaller areas.

WET CLEANING

- Always pre-vacuum or dry dust mop before wet cleaning.
- Use neutral pH vinyl cleaner* and follow the manufacturer's instructions for dilution and use.
- Common systems are: 1) Micro fiber wet mop or mop and two-bucket system, and 2) Automatic scrubbing with a red 3M pad/equivalent brushes.
- Rinse the floor with clean water. Repeat the rinse process if necessary to remove all haze
- Do not use brown or black pads/brushes. These pads are too aggressive and can damage the floor.
- Products containing bleach and steam mops are not recommended.

The above guidelines are recommended to maintain LVT, LVP and sheet resilient products. Application of finish is optional in certain applications. Always follow the finish manufacturer's instructions for mixing and method of application. It is also recommended that if finish is applied, additional cleaning products be from the same manufacturer due to compatibility issues. Specialty floors such as sports floors with cushion back, ESD/static-control and floating floors will have exceptions to the maintenance guidelines. Contact the Information Center or Technical Support at 877.502.7429.

*There are many available cleaning and maintenance products for hard surfaces, especially resilient floors. These products should be evaluated since each location can have different requirements due to the type of soil, performance expectations and available maintenance equipment. Applying finishes will change the original product and the finish becomes the wear layer. The following are suggested products to assist the maintenance program:

- Neutral Cleaners: Diversey STRIDE® or PROMINENCE®, Shaw Hard Surface Cleaner, Hilway Direct Neutral Cleaner
- Spray and Buff: Diversey SNAPBACK®
- Matte Finish: Diversey Carefree Matte® Hilway Direct Plus Matte

- Gloss Finish: Diversey Carefree® Hilway Direct Plus Gloss
- Technical phone numbers:
 - Diversey: 1.800.558.2332
 - Shield Industries for Shaw Cleaner: 1.877.209.7309
 - www.1877floorguy.com 1.877.356-6748

SUGGESTED FREQUENCY CHART FOR RESILIENT FLOOR CARE

Traffic Level	Vacuum or Dust Mop	Spot Removal	Wet Mop or Auto-Scrub
Light <ul style="list-style-type: none"> • Private offices • Cubicles 	2+ times per week	As needed	Wet Mop Weekly Scrub Quarterly
Moderate <ul style="list-style-type: none"> • Shared offices • Secondary hallways • Conference rooms • Classrooms 	1 time per day	As needed	Wet Mop Daily Scrub Monthly
Heavy <ul style="list-style-type: none"> • Common entrances • Elevators • Main hallways • Break rooms • Work rooms • Mail rooms • Patient rooms • Waiting areas 	1+ times per day	As needed	Wet Mop Daily Scrub Weekly

This chart represents a general guideline; identify and schedule your facility for specific conditions and frequencies.

Resilient SPC Limited Warranty - 15 Year Commercial / 20 Year Residential

Shaw Industries, Inc. ("the Company") warrants its resilient SPC products under this Commercial Limited Warranty when used in the proper fit for use environment for normal indoor commercial applications.

The warranty belongs to you, the original end-use purchaser, and begins when you purchase the resilient and extends for the limited warranty period stated above. The basis of any warranty related claim is the original "Company" invoice or authorized "Company" dealer.

The resilient must be installed in accordance with the Company's installation guidelines and specifications. The product must be maintained in accordance with the Company's maintenance (resilient care) recommendations and such maintenance (resilient care) continues throughout the duration of the original installation. Damage resulting from a failure to follow installation and cleaning/maintenance guidelines will not be covered under this warranty.

Installation guidelines, specifications, and resilient care recommendations can be obtained from your dealer. For additional information, please see the bottom of this page.

WHAT THE WARRANTY COVERS

- **Manufacturing Defects** – The Company warrants that the floor plank or tile will be free from manufacturing defects during the period of this warranty. Manufacturing defects include delamination, core voids, thickness variation, and dimensional stability defects. Dimensional stability related defects are defined as dimensional changes in the width and/or length of the product greater than the tolerances as defined in ASTM F2199. Thickness variation is defined as thickness exceeding the thickness tolerance as defined in ASTM F3261.
- **Wear** – The vinyl layer of the floor plank is warranted not to wear through under normal commercial use during the period of this warranty. Gloss reduction, scratches and dents in the finish are not considered surface wear and are not covered under the warranty. Wear through is defined as wear due to normal foot traffic will not wear through to the pattern layer of the product.
- **Top Down Moisture** – The Company warrants that for the stated warranty period, the structural integrity of the floor plank or tile will not be significantly diminished by exposure to surface moisture. While moisture will not affect the floor's integrity, it is probable that, when excessive moisture accumulates in buildings or on building materials, mold (and/or) mildew growth can occur (particularly if the moisture problem remains undiscovered or unaddressed). Damage caused by mold and/or mildew growth, excessive moisture, hydrostatic pressure, floods, and standing water from leaky pipes is excluded from this warranty.

This warranty does not cover: damage to the surrounding structure, walls, subfloor, fixtures, furniture, underlayment, moldings, trims, subfloor heating elements, or anything not on the floor plank or tile; damage resulting from mold and mildew growth due to prolonged exposure to moisture; or flooring installed outdoors.

- **No Acclimation** – The Company warrants the floor plank or tile can be installed without allowing the product to achieve room temperature as long as the building where product will be installed is acclimated and climate controlled as according to the installation guidelines.

WHAT CONDITIONS APPLY

For jobsite and floor preparation conditions, see product specific installation guidelines.

Any moisture related testing (i.e. relative humidity, pH, and calcium chloride) is not the responsibility of the Company and all issues related to subfloor moisture, including any product related issues, are excluded from this warranty.

Chair floor protectors are recommended to inhibit premature wear of the surface of the resilient. Replacement resilient will come from current running-line products comparable to the warranted product.

Your warranty does not cover the following: damage caused by improper installation and/or maintenance; differences in color between products and samples or photographs; problems arising from excessive moisture, alkali or water pressure from the sub floor, floods, indentation from improper loading including heavy static loads, high heels, spiked shoes, rolling loads, chairs or other furniture not using floor protectors; cracking, warping, soiling, fading, improper maintenance or abuse caused by items such as roller skates and/or golf shoes; surface scratches, changes in shading, texture and/or gloss during use; damage caused by chemically reactive material, adhesive or tape, dye, mold, stains, spillage, burns, gouges, scratches, indentations, accidents, abuse or any harsh scouring pads while buffing; damage due to U.V. light, thermal heat sources or damage to the floor caused by exposure to temperatures above 100°F (38°C) or is exposed to temperatures below 55°F (13°C).

WARRANTY LIMITATIONS

Shaw products are not warranted against squeaking, popping or crackling. Some squeaking, popping, or crackling is possible when installed using floated methods.

WHAT IF YOU NEED WARRANTY SERVICE

You, the original purchaser, will contact your authorized Company Dealer and/or Sales Representative for warranty or claim service. Please provide a valid proof of purchase and a detailed description of the issue, along with photographs showing the concern. Samples should be submitted for testing when available.

Dealers/Shaw Sales Representatives will file a claim via www.shawnow.com and submit the information you provided. A Shaw claims representative will thoroughly evaluate your claim.

Claims contact information: Shaw Industries Financial Services, PO Box 2128, Dalton, GA 30722 - 1-800-257-7429.

WHAT WE WILL DO

Should a defect covered under this warranty be found, the affected area will be repaired to conform to the warranty. If repair is not commercially practical, the Company may, at its sole option, replace the affected resilient or refund the proportional purchase price for the affected area. The Company will pay the reasonable costs for freight and labor. Any costs incurred for the moving of equipment, furnishings, partitions and the like, that were installed over the commercial product, will be at the consumer's expense.

NOTE: The warranty is not transferable. It extends only to the original end use purchaser. Shaw Industries Inc. does not grant to any person or entity the authority to create for it any obligation or liability in connection with this product. Shaw Industries Inc. shall not be liable to the consumer or any other person or entity for any incidental, special or consequential damages, arising out of breach of this limited warranty or any implied limited warranty (excluding merchantability).

All implied warranties, including an implied warranty of merchantability or fitness for a particular purpose, are hereby limited to the duration of this limited warranty. Some states do not allow the exclusion or limitation of implied warranties or the limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to the purchaser. This warranty gives the purchaser specific legal rights, such rights may vary from State to State.

1-Component Hybrid Adhesive

UZIN KE 68 T

1-Comp. hybrid adhesive for floor and wall applications

MAIN APPLICATION FIELD:

- ▶ rubber floor coverings in tiles up to 4 mm (e.g. norament®)
- ▶ luxury vinyl tiles or design floors
- ▶ PVC and CV floor coverings in sheets and tiles
- ▶ linoleum in tiles up to 4 mm
- ▶ PVC wall cladding (e.g. Altro Whiterock, Gerflor Decochoc)

SUITABLE ON / FOR:

- ▶ absorbent and non absorbent substrates
- ▶ deformable or elastic substrates (e.g. underlays, wood, please obtain technical advice for metal)

Note: Also suitable for processing on the floor. Obtain technical advice for additional combinations of floor covering and substrates.



PRODUCT BENEFITS/FEATURES:

UZIN KE 68 T is a ready to use and user-friendly 1-comp. hybrid adhesive with very low emissions. The compact adjustment of the adhesive is ideal for floor and wall applications. The adhesive is very resistant against heavy loads, high temperatures (up to 50 degree celsius) or humidity. For interior use.

- ▶ ideal consistency for working on vertical surfaces
- ▶ for installers with PUR or epoxy sensitization
- ▶ for areas with high temperatures
- ▶ suitable for wet area LVT installations, surface water must be removed within 24 h



TECHNICAL DATA:

Packaging	plastic bucket
Pack size	11 kg
Shelf life	min. 12 months
Colour, wet	beige
Colour, dry	beige
Consumption	250 - 2700 g/m ²
Working time	up to 40 minutes*
Minimum application temperature	15 °C at ground level
Loadable	after 24 hours*
Joint sealing	after 24 hours*
Final strength	after 3 - 5 days*

*At 20 °C and 65% relative humidity.



SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks and materials (dirt, oil, grease) that would impair adhesion. The surface must be free of dust and as even as possible. Test the substrate in accordance with applicable standard or notices and report any deficiencies.

The datasheets for other used products have to be observed.

APPLICATION:

1. Before use, allow the adhesive to come to room temperature. Pull off the foil cover after opening and remove any surface skin if necessary. Do not mix the skin in.
2. Apply an even coat of adhesive onto the wall using a suitable notched trowel. Do not apply more adhesive than can be laid with good transfer onto the back of the covering within the working time. Press down the covering well.
3. Remove residues while fresh with wipes from the UZIN Clean-Box. Hardened adhesive can only be removed mechanically.

CONSUMPTION INFORMATION:

For the adhesion of Altro Whiterock, Altro Debolon recommends a C2 trowel notch.

CONSUMPTION INFORMATION:

Coating/Backing	Toothing	Consumption approx.*
Smooth or slightly structured, e.g. PVC or LVT	A5	250 - 300 g/m ²
Structured, e.g. rubber	A2	350 - 400 g/m ²
Wood or engineered timber wall cladding	B3	900 - 1000 g/m ²
Rigid PVC wall cladding	C2	2500 - 2700 g/m ²

Observe the technical guidelines of the wall covering manufacturer.

IMPORTANT NOTES:

- ▶ A shelf life of 12 months when stored in moderately cool conditions, in the original packaging. Frost-resistant down to - 25 °C. Carefully and tightly reseal opened containers with the foil and use the contents quickly. Allow containers to come to room temperature before use.
- ▶ Best applied between 18 - 25 °C, with the floor temperature above 15 °C and relative air humidity below 65%. Low temperatures and low air humidity lengthen the working and drying time. Whilst high temperatures and high air humidity shorten the working and drying time.

- ▶ Humid substrates may cause secondary emissions and odours. Therefore, ensure the compound is dry before applying the adhesive.
- ▶ Installations onto substrates with old adhesive residues may cause interactions and lead to unpleasant odours. Ideally these should be removed completely. In all situations adhesive residues must be remedied via the use of primers and coatings of compound at least 3 mm thick.
- ▶ Before installing, the floor covering must be adequately acclimatised to the indoor climate and free from tension.
- ▶ Strong deformation of the roll ends, hanging bays, extremely raised edges or strong curvatures must be weighed down during the adhesion.
- ▶ Please check the adhesive recommendations (online) or obtain application advice when installing chlorine-free floor coverings.
- ▶ Follow the generally acknowledged rules of the trade and technology for the installation of floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.)
- ▶ For longer term/sustained potential surface water please use UZIN KR 430

SEALS OF QUALITY & ECOLABELS:

- ▶ Solvent-free, containing methoxysilane
- ▶ EMICODE EC 1 PLUS / Very low emission
- ▶ DE-UZ 113 / Environmentally friendly because of low emissions

COMPOSITION:

Silane-terminated prepolymers, mineral fillers, additives.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Solvent-free adhesive containing methoxysilane. Non flammable. Avoid contact with eyes and skin. When curing, produces traces of methanol. Ensure good ventilation during application. Wear protective gloves and safety-goggles. After contact with skin wash with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Observe safety information on product label as well as safety data sheet. Once cured, has a neutral odour and presents no physiological or ecological risk

DISPOSAL:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste. Therefore collect waste material and allow to harden, then dispose as Construction Waste.

- ▶ For use in PAH decontamination please refer to the detailed system recommendations and notes on the internet (www.uzin.com).
- ▶ For priming metal substrates, prepare a test area or contact UZIN Technical Service for advise.
- ▶ For use as a levelling compound, allow the primer to dry. Apply the compound within 24 to 36 hours on the cured primer. If this is not possible, blind the wet primer with UZIN Perlsand 0.8. Once cured, remove any loose sand which has not embedded.
- ▶ Apply epoxy mortar "wet in wet" on the primer.
- ▶ Protect freshly applied epoxy mortar areas from draughts, direct sunlight and sources of heat.
- ▶ Do not mix partial quantities!
- ▶ When mixed with the UZIN Epoxy Accelerator it will not achieve EC 1 PLUS classification.
- ▶ Follow the generally acknowledged rules of the trade and technology for the installation of wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.).

SEALS OF QUALITY & ECOLABELS:

- ▶ Solvent-free
- ▶ EMICODE EC 1 PLUS / Very low emission

COMPOSITION:

Polyamine-hardened epoxy resin.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Solvent-free. Non flammable. Comp. A: Contains epoxy resin/irritant. Comp. B: Contains amine hardener/corrosive. Both components: May cause irritations or burns to eyes, skin or respiratory system. May cause sensitisation by skin contact. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Use barrier cream, protective gloves and safety-goggles. In liquid form, "hazardous to the environment", therefore do not allow into drains, water courses or landfill. Observe safety information on product label as well as safety data sheet. Once cured, has neutral odour and presents no physiological or ecological risk.

DISPOSAL:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.

1-Component PU Rapid Primer

UZIN PE 414 BiTurbo

Ready mixed reactive resin primer for flooring coverings including wood flooring

MAIN APPLICATION FIELD:

- ▶ blocking primer on unheated cementitious screeds and concrete up to 4 CM-% / 95% RH with 2 or 3 applied coats.
- ▶ blocking primer on heated constructions up to 2.5 CM-% / 85% RH with 2 or 3 applied coats.
- ▶ for subsequent installations with UZIN reactive resin adhesives



SUITABLE ON / FOR:

- ▶ dense or absorbent substrates, on well-bonded residues of adhesives or compounds (e.g. synthetic resin, neoprene, bitumen or dispersion adhesives residues)
- ▶ moisture sensitive substrates (e.g chip and OSB boards, gypsum and screed boards)
- ▶ new mastic asphalt screeds
- ▶ primed with UZIN PE 280 prior to installation with UZIN cement or calcium sulphate levelling compounds
- ▶ warm water underfloor heating systems
- ▶ exposure to castor wheels in accordance with DIN EN 12 529
- ▶ suitable for residential, commercial and industrial areas

PRODUCT BENEFITS/FEATURES:

UZIN PE 414 BiTurbo is a rapid drying, ready mixed polyurethane primer without plasticizing ingredients which offers a wide field of application. For interior use.

- ▶ easy handling
- ▶ easy application by roller or trowel
- ▶ excellent penetration
- ▶ fast drying
- ▶ moisture barrier up to 4 CM-% / 95% RH



TECHNICAL DATA:

Packaging	plastic canister
Pack Size	12 kg, 6 kg
Shelf Life	min. 9 months
Colour, wet	brown
Colour, dry	brown
Consumption	80 - 150 g/m ² per coat*
Drying Time	see application chart
Minimum Application Temperature	15 °C at ground level

*At 20 °C and 65% relative humidity.



SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks and free from materials (dirt, oil, grease) that would impair adhesion. Cement and calcium sulphate screeds must be abraded and vacuumed. Test the substrate in accordance with applicable standard or notices and report any deficiencies.

Any adhesion-reducing or unstable layers, e.g. release agents, loose adhesives, compounds, covering or paint residues, etc. must be removed, e.g. by brushing, abrading, grinding or shot-blasting. Used, smooth and non-absorbent substrates have to be cleaned intensively with UZIN Basic Cleaner and once dry must have a matt finish. Thoroughly vacuum loose material and dust. Allow the primer to dry completely.

The datasheets for other used products have to be observed.

APPLICATION:

1. Before use, allow containers to come to room temperature and shake well.
2. **For subsequent installation of wood flooring with UZIN reactive resin adhesives on dense or less absorbent substrates:** Apply UZIN PE 414 BiTurbo with the UZIN Nylon Roller. On very smooth and flat calcium sulphate flow screeds or precast screeds its also possible to use a squeegee. Wood flooring has to be installed within 72 hours after application; otherwise grind surface and vacuum if necessary.
3. **For solidification of substrates:** Apply UZIN PE 414 BiTurbo in 1 or 2 thin, non-foaming coats with the UZIN Nylon Roller.
4. **For blocking residual moisture:** Apply UZIN PE 414 BiTurbo in 2 coats with the UZIN Nylon Roller. The second coat can be applied after the first coat is set to foot traffic (after approx. 60 minutes) and needs to dry for min. 1 hour.
5. **For subsequent installation of levelling compounds and flooring adhesives:** Apply UZIN PE 280 on the dry UZIN PE 414 BiTurbo. If a DPM is necessary, applying 2 coats of UZIN PE 414 BiTurbo is necessary.
6. Clean tools with wipes of UZIN Clean Box immediately. Dry material can only be removed mechanically.

APPLICATION CHART:

Foundation / Application	Consumption	Drying Time
Prior to direct installations with UZIN PUR / STP / MSP adhesives	80 - 150 g/m ²	min. 1 hour*
On mastic asphalt, prior to direct installation of wood flooring with UZIN PUR / STP / MSP adhesives	80 - 150 g/m ²	12 hours*
Moisture barrier up to 4 CM-% / 95% RH	250 - 300 g/m ²	1st and 2nd coat: approx. 1 hour*

*At 20 °C and 65% relative humidity.

IMPORTANT NOTES:

- ▶ A shelf life of 9 months when stored in moderately cool conditions, in the original packaging. Carefully and tightly reseal opened containers and use the contents quickly. Allow containers to come to room temperature before use.
- ▶ Best applied between 16 - 25 °C, with the floor temperature above 15 °C and relative air humidity below 65%. High temperatures and high air humidity shorten the drying time. Whilst low temperatures and low air humidity lengthen the drying time.
- ▶ Two coats are required on highly absorbent or old substrates and when used as a barrier against screed odours. Two coats are also required when using as a moisture barrier up to 4 CM% / 95% RH.
- ▶ When used over underfloor heating ensure it has been commissioned and fully tested in accordance with the manufactures guidelines.
- ▶ If installing wooden floors with UZIN reactive resin adhesives directly to the primer this must happen within 72 hours after applying the primer.
- ▶ For screeds constructions in contact with the ground or cementitious screeds with a moisture level higher than 4 CM% / 95% RH, epoxy resins such as UZIN PE 460 or UZIN PE 480, gritted, must be used.
- ▶ Follow the generally acknowledged rules of the trade and technology for the installation of wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.)

SEALS OF QUALITY & ECOLABELS:

- ▶ Solvent-free
- ▶ EMICODE EC 1 PLUS / Very low emission

COMPOSITION:

Moisture-curing, modified polyurethane prepolymers.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Solvent-free. Non flammable. Contains diphenylmethane-diisocyanate (MDI). Harmful on inhalation. Irritating to eyes, respiratory system and skin. There is limited evidence of a carcinogenic effect for respirable vapours of MDI. Harmful: May cause damage to organs through prolonged or repeated exposure. May cause sensitisation by inhalation and skin contact. Provide good ventilation. Use barrier cream, protective gloves and safety-goggles. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Observe safety information on product label as well as safety data sheet. Once cured, has a neutral odour and presents no physiological or ecological risk.

DISPOSAL:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste. Therefore collect waste material and allow to harden, then dispose as Construction Waste.