



NPOZ chosen by nature



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(주)풍한인더스트리 +



(주)풍한인더스트리
punhanindustry

4 floor, 11, Opaesan-ro, Seongbuk-gu, Seoul, Republic of Korea
T. 02)418-8812 F. 02)422-8814 E. punghan@npoz.co.kr

www.npoz.co.kr

NPOZ FLOORING



NPOZ POZZOLAN FLOORING
BEST OF HIGH QUALITY

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NPOZ, an eco-friendly flooring material that protects our families

NPOZ POZZOLAN FLOOR PUNGHAN INDUSTRY



A brand that creates a healthy environment for humans, animals and plants with natural mineral pozzolan

NPOZ FLOORING

NPOZ floor is a new flooring material based on innovation and eco-friendliness

Made from pozzolanic natural mineral material,
it boasts waterproof, wear-resistant, and low-noise properties.
It is an eco-friendly flooring that protects the health of our families
and children as it does not contain any formaldehyde.

It has created an innovative trend as a flooring material
that provides a variety of colors and beautiful visual effects
to beautify home interiors.





NPOZ flooring is safer as it uses Pozzolan, the most functional and eco-friendly material.

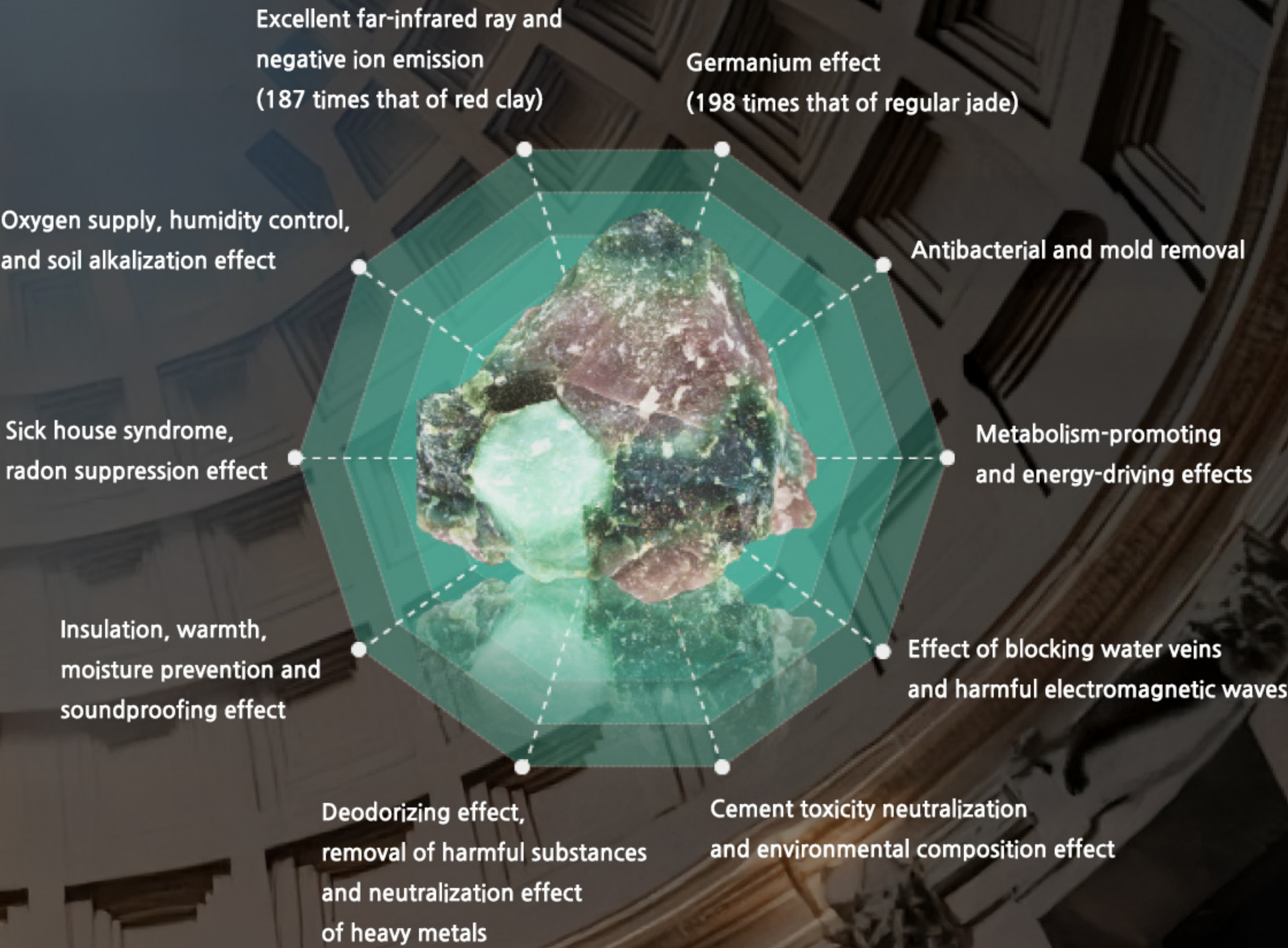
It is a natural mineral created as a result of volcanic activity during the Cretaceous period of the Mesozoic Era. In addition to the general functions of volcanic soil, such as emitting high-quality far-infrared rays, promoting plant growth, and controlling humidity, it has a sterilizing effect, removes mold, and emits negative ions and far infrared rays, and is used in agriculture, architecture, and medicine. It is an eco-friendly mineral material that is widely used in humans and is harmless to the human body.

Germanium is a rare gemstone of which only 1.2 million tons are extracted annually worldwide. It purifies the blood and helps strengthen immunity. It has effects such as excreting heavy metals from the body and preventing skin aging.

NPOZ Pozzolan Flooring uses world-class minerals from Hoengseong, Gangwon-do.

Eco-friendly material with the best functionality in the 21st century

Pozzolan



Test results from Korea Far Infrared Association

Emissivity (6 ~ 20μm)	Radiant energy (W/㎡ ,40℃)
0.912	3.67 X 10 ²

Functions and performance of pozzolan

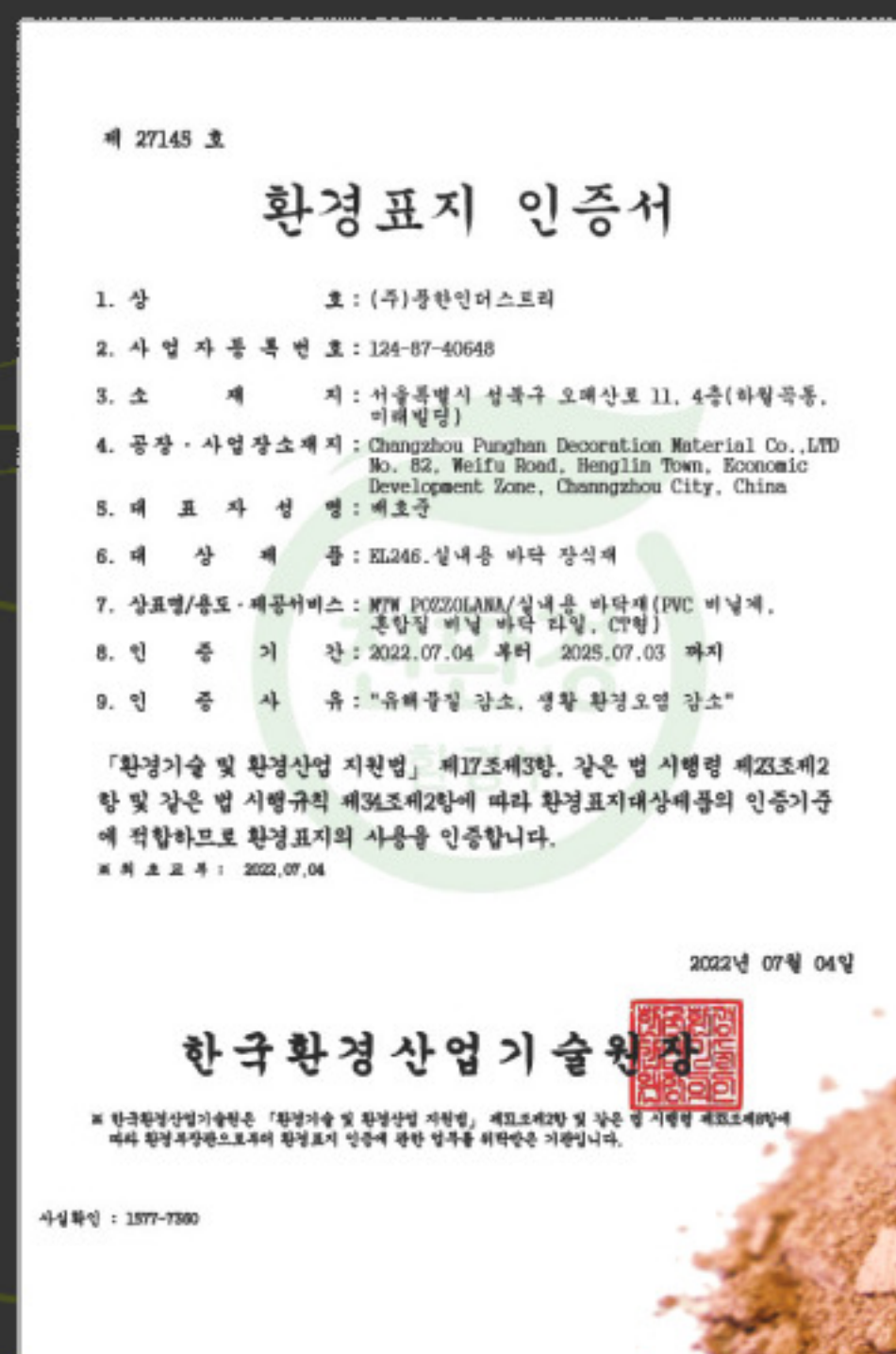
Natural materials beneficial to nature and health **Pozzolan**

Eco-friendly energy, pozzolan

Using the natural mineral pozzolan as a building material is a step toward a sustainable future by minimizing energy use, reducing carbon emissions, and creating a healthy indoor environment.

Pozzolan, a gift from nature

Pozzolan is a high-quality natural mineral created during volcanic activity on the Korean Peninsula during the Cretaceous Period of the Mesozoic Era 65 million years ago. It is a material that is 187 times more effective than ordinary red clay. Pozzolan, which contains the largest amount of germanium in Korea, is confirmed to contain a whopping 198 times more than the general content of jade.



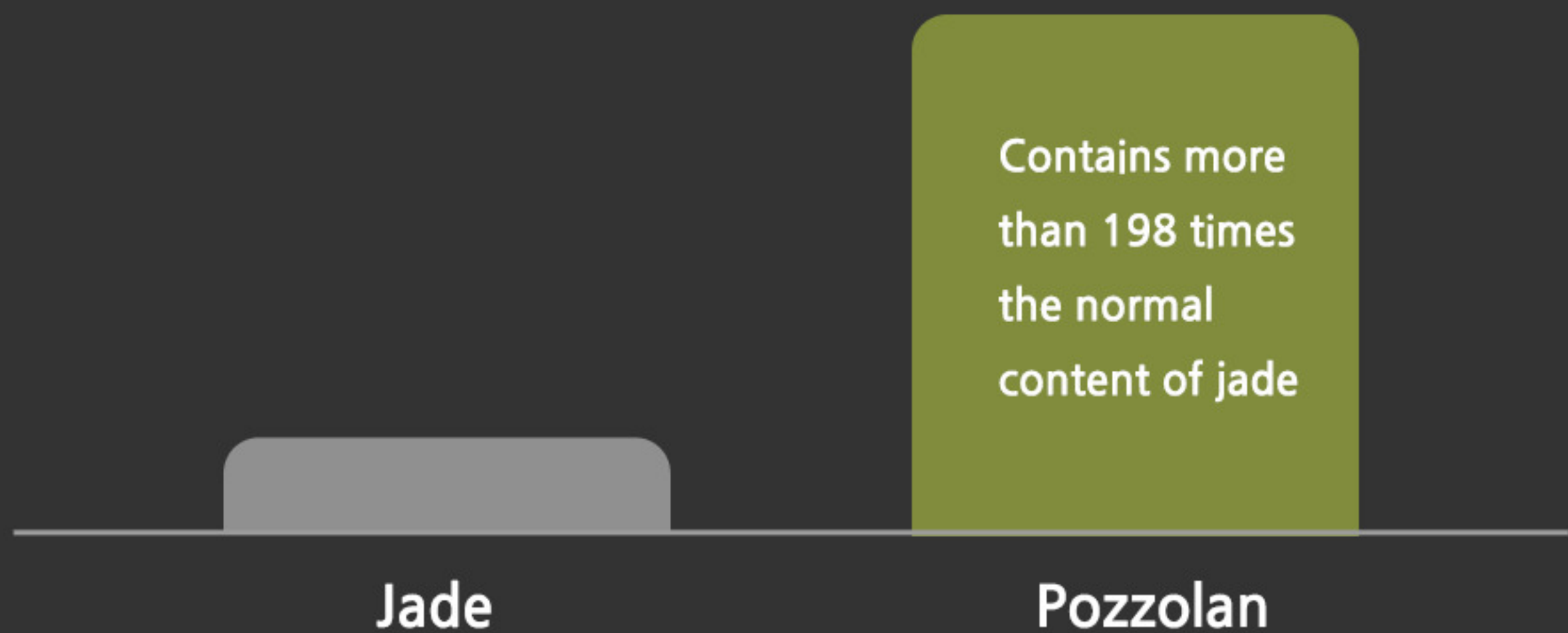
You can use this product

with confidence as it is certified by a domestic certification agency.

Create a healthy and healing space with NPOZ.

	Anti-inflammatory and atopy healing effect		Prevents water veins and blocks harmful electromagnetic waves
	Antibacterial action and mold prevention		Save about 30-40% on heating costs
	Eliminate sick house syndrome in an eco-friendly way		Insulation, warmth, moisture proof and soundproofing effects

Contains the **largest** germanium content **in Korea**



Source: Korea Advanced Institute of Science and Technology - ICP Analysis

NPOZ WOOD TYPE

White Oak
NPOZ - 1001



NPOZ-1001 White Oak

Modern and luxurious flooring

White oak has a fine tissue structure that allows for fine processing. It has a relatively brighter color among oak types, making it a modern and luxurious interior style.

NPOZ WOOD TYPE

Ivory Oak
NPOZ – 1002



NPOZ-1002 Ivory Oak

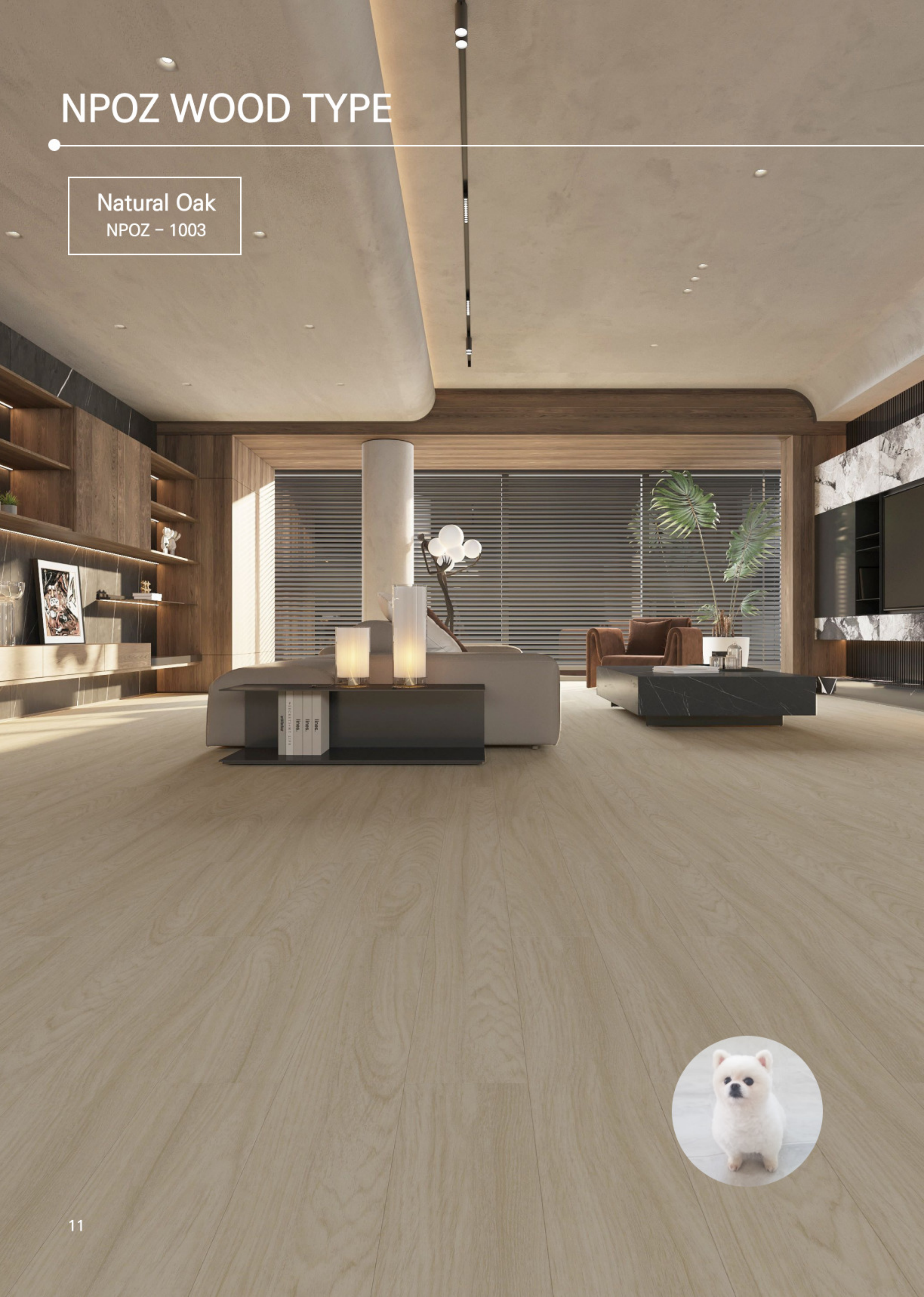
Flooring with the characteristics of oak wood

Ivory oak has a bright color like white oak.

The natural patterns and textures of oak wood are expressed more deeply, creating a brighter feel.

NPOZ WOOD TYPE

Natural Oak
NPOZ - 1003



NPOZ-1003 Natural Oak

Notable interior

Natural oak is characterized by its natural wood tone color and texture and is often used in interior design to emphasize the pure beauty of wood.

NPOZ WOOD TYPE

Natural Teak
NPOZ – 1004

NPOZ-1004 Natural Teak

Atmosphere in harmony with nature

Natural Teak creates an elegant yet natural atmosphere and has natural texture and color. It has the characteristic of creating an atmosphere in harmony with nature.

NPOZ WOOD TYPE

Teak Oak
NPOZ – 1005



NPOZ-1005 Teak Oak

Warm atmosphere

Teak oak is a tree that helps us feel mature and stable. It creates an elegant and noble atmosphere, bringing naturalness and peace to our lives and containing a warm feeling.

NPOZ WOOD TYPE

Brown Oak
NPOZ - 1006



NPOZ-1006 Brown Oak

Modern natural materials

Brown oak is one of the hardwoods that allows you to feel the durability and beauty of the wood at the same time. It has the advantage of allowing you to feel a modern atmosphere and naturalness at the same time.

NPOZ-1007 Natural Gray

Variety of color tones and eye-pleasing interior

Natural gray comes in a variety of shades from dark brown to black. It is widely used as an interior material in various spaces due to its unique and luxurious atmosphere and high strength, so it is less prone to deformation or damage.

NPOZ STONE TYPE

Foggy Gray
NPOZ - 2001



NPOZ-2001 Foggy Gray

Stylish design

Fog Gray is a bright, clean artificial stone mixed with white and a bit of gray and features a pattern similar to marble.

It has a sophisticated, modern feel and creates a luxurious atmosphere.

NPOZ-2002 Gray Stone

Calm colors

Gray Stone is a calm and noble gray-colored artificial stone with a texture reminiscent of an endless universe and a color that illuminates the inner self and evokes deep thoughts.

NPOZ STONE TYPE

Bianco White
NPOZ - 2003



NPOZ-2003 Bianco White

Transparent design

Bianco White is made of a very bright and clean white-based artificial stone, creating a clean atmosphere with a shaman-colored pearl luster and a clean, transparent tear-like pattern

NPOZ-2004 Botticino

Dark marbling pattern

Botticino has a dark marbling pattern that harmoniously mixes light beige and pure white. You can feel the soft texture of beige color mixed with the luxury of pure white color.

NPOZ STONE TYPE

Botticino
NPOZ – 2004



| Strict wear resistance of flooring

“ Have you given up on interior design to accommodate children and students? Are you worried about damage to your floor from your pet's claws? Relieve your worries with a floor that is durable enough for any lifestyle. ”



FITI 시험연구원
(2015) 중대형시험기 5층을 양정3길21
Tel : 043-711-8875 Fax : 043-711-8804



TEST REPORT

성적서번호 : M255-24-01999(X)

- 의뢰인**
 기 관 명 : (주)동원인더스트리
 주 소 : 서울특별시 성동구 오래산로 11 (하월곡동,미래빌딩)
- 시험대상품목 또는 물질, 시험명** : M&T POZZOLAN SPC 실내용바닥재
- 시험기간** : 2024. 05. 20 ~ 2024. 05. 22
- 시험장소** : ■ 고정시험실 □ 현장시험
 (주소: 충북 청주시 정충로 오창동 양정3길 21)
- 시험방법** : 다음 참조
- 시험결과** : 다음 참조

확 인	작성자	승인자
성 명 : 최재웅	(서 명) 성 명 : 이도협	(서 명) 성 명 : 이도협

위 성적서는 국제시험기관인증협력체(International Laboratory Accreditation Cooperation) 상호인정협정(Mutual Recognition Arrangement)에 서명한 한국시험기구(KOLAS)로부터 공인받은 분야에 대한 시험결과입니다.

2024년 5월 22일

01. 내마모성 (KS M 3802 : 2022) : mg

	#1
	26

주) 시험조건 - 마모자 : CS-17, 적용하중 : 1 000 g, 시험횟수 : 1 000 회
 1 000 회 마모 후 질량 감소량 측정
 시험 환경 : (20.0 ± 2.0) °C, (65.0 ± 4.0) % R.H.

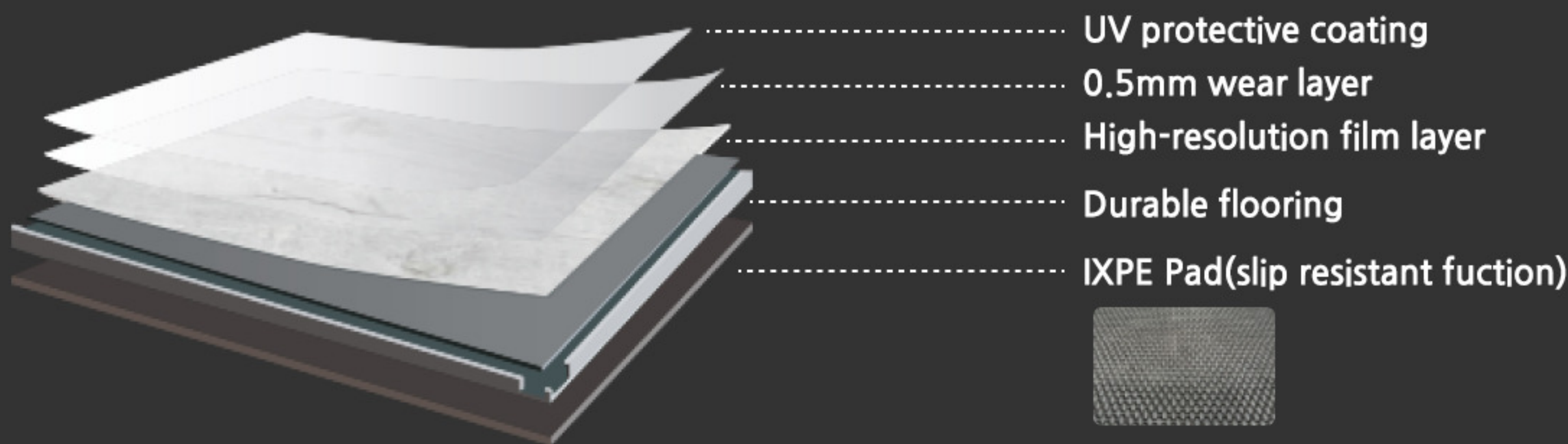
한국시험기구 인정 **FITI 시험연구원장 (인)**

※ 문서 확인 번호 : VGKR-7FSJ-2MA ※
 홈페이지에 접속 후 "성적서확인" 메뉴에서 문서 확인 번호를 통해 위 번호 여부를 확인할 수 있습니다.

※ DOCUMENT SERVICE ※
 이 성적서는 전자문 사용에 따른 시험결과서서 전체자료에 대한 통일을 보장하지 않으며, 서명장은 의무적이지 않습니다. 전자문 사용에 동의합니다.
 이 성적서는 FITI의 시험서면 용의 종이, 용지, 인쇄, 광고 및 소유권으로 사용될 수 있으며, 본도 이외의 사용을 금합니다.
 이 성적서는 KS Q ISO/IEC 17025 및 KOLAS 인증과 관련이 있습니다.
 이 성적서는 원본(제출한 파일)과 부속(제출한 파일) 및 전자 문서(제출한 파일)에 대한 시험결과에 대한 참고용입니다.

NPOZ has passed the abrasion test of FITI Testing Institute,
so you can use it without worrying about scratches.

| Floor structure diagram



Structure	Functions and Detailed Descriptions by Structure
UV Protection Coating	The UV-coated layer, made in film form, is waterproof and resistant to scratches and moisture.
0.5mm wear layer	A thickness of 0.5mm prevents wear and allows for long-term use
High-resolution film layer	high-resolution wood films in various colors and marble-patterned films that closely resemble real marble to meet the needs of customers who prefer a variety of colors, creating a realistic appearance
Durable flooring	The high-density flooring is made of flame-retardant materials composed of pozzolan calcium carbonate and virgin PVC, ensuring safe use without the emission of formaldehyde and VOCs.
IXPE Pad	The underlayment is non-slip and provides noise reduction and cushioning, enhancing walking comfort, reducing inter-floor noise, and increasing thermal conductivity during heating

| Comparison table of NPOZ floor

Division	Deco-tile	Laminated floor	Gangmaru	NPOZ floor
Raw materials	recycled PVC	HDF (high density)	plywood	carbonated calcium + pozzolan
Heating	good	insufficient	average	very excellent
Antibacterial / mold removal	insufficient	insufficient	insufficient	good
Germanium effect	insufficient	insufficient	insufficient	good
Fireproof, water resistance	average	insufficient	insufficient	very excellent
Durability	insufficient	good	good	very excellent
contraction, expansion	insufficient	average	average	almost none
Construction method	use of bond	no bond	use of bond	no bond

| Analysis results of NPOZ pozzolanic floors

Flooring made of natural pozzolan is very safe as the four major heavy metals and phthalates are not detected. It has minimal shrinkage and expansion, resulting in less deformation and excellent durability and water resistance. Heating is about three times better than laminate flooring, and it is convenient for cleaning, so it is used in a variety of places and environments, including homes, public facilities, water facilities, and wet or cold environments.

Special advantages of NPOZ

Pozzolan, the most functional and eco-friendly material of the 21st century, was used. By using non-toxic adhesives, we develop new products made of eco-friendly materials that are safe in hot weather and contain no formaldehyde, and we develop, produce and import products of the highest quality. The non-adhesive click method makes construction simple and does not produce harmful substances.



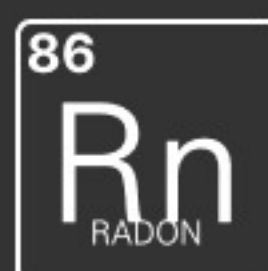
This is an eco-friendly material grade.

Free from formaldehyde, benzene, heavy metals and carcinogens, and free from soluble volatile substances.



Warm and comfortable

It has good thermal conductivity and heat is transferred evenly. It has excellent floor heating and thermal conductivity, making it the most preferred flooring material in developed countries such as the United States and Europe.



Radon-free material

It is safe as it does not emit formaldehyde or radon, and is effective in blocking water veins and harmful electromagnetic waves.



Solid flooring

It is made from a material consisting of calcium carbonate and Korean pozzolan.



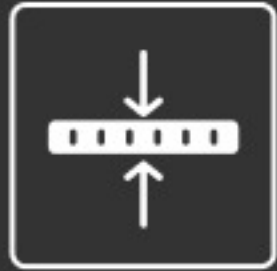
100% waterproof and moisture proof

It has good moisture-proofing properties in living rooms and bedrooms, and is very suitable for places that require waterproofing, such as kitchens and verandas.



Use of flame retardants

NPOZ flooring, an eco-friendly material, has a fire rating of B1. No toxic or harmful gases are produced.



0.5 wear layer

The thickness of 0.5mm prevents the product from wear and tear, allowing it to be used for a long time.



Excellent anti-slip

It has special anti-slip properties, making it a suitable flooring material for places where public safety is required, such as airports, kindergartens, hospitals, and schools.



Anti-bacterial, anti-mold

It has been treated with special antibacterial treatment and has strong antibacterial properties.



Less contraction and expansion

It is strong against contraction and expansion, so there is no lifting or warping.



High resolution film layer

We used high-resolution wood and marble patterns in several colors to match various color preferences to express a diverse and realistic feel.



Sound absorption and noise prevention

The noise-absorbing pad attached to the underside of the floor absorbs noise from the floor and reduces noise between floors.



Quick and easy installation

Installation is simple and convenient thanks to the click-type construction that does not require applying glue to the floor. After construction, the space can be used immediately without waiting.

| NPOZ floor Specifications

- NPOZ Wood type



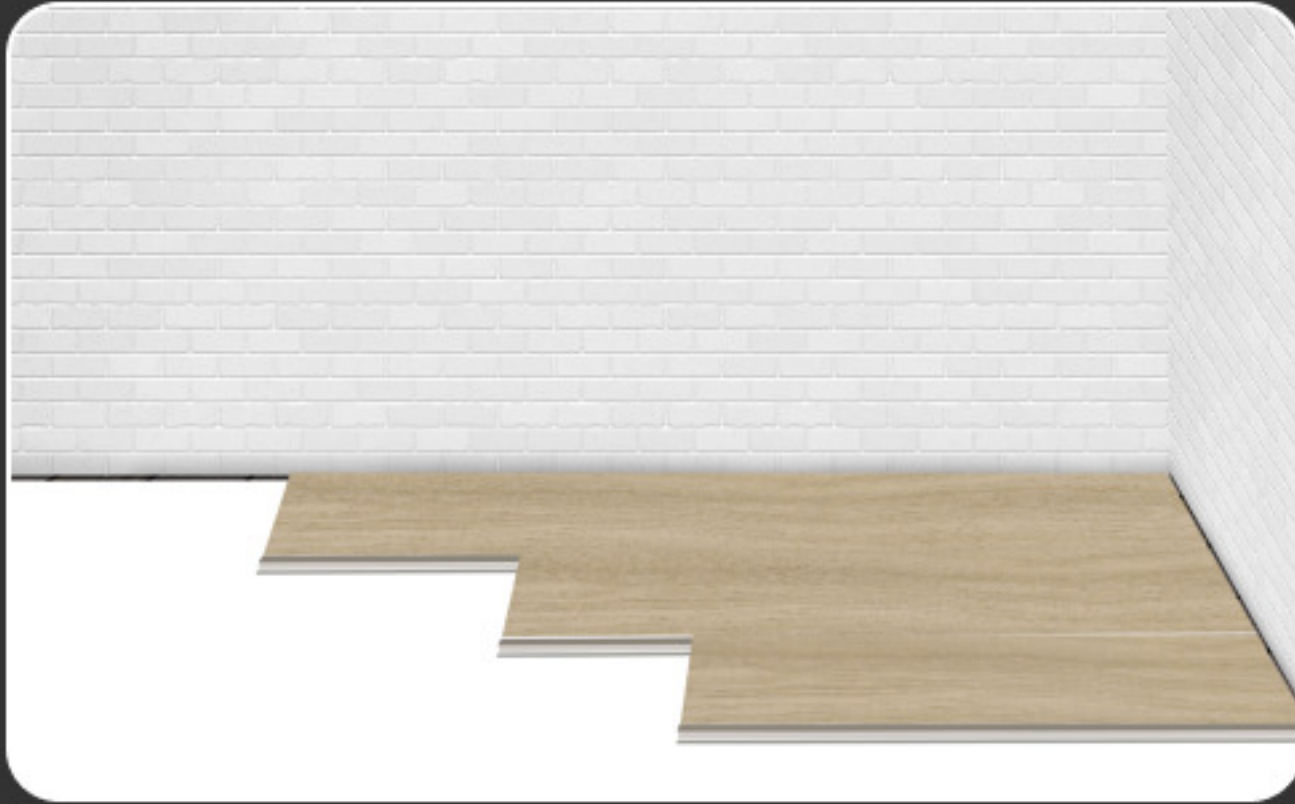
- NPOZ Stone type



Division	Standard	Thicknss	Packaging unit	Material grade	Fire resistance rating
Wood type	970*151	7.5	1Box = 11ea	B1	SEO grade
Stone type	580*310	7.5	1Box = 9 ea	B1	SEO grade

: Loss must include 5% of the actual square footage.

| NPOZ Floor construction method



1. Install the floor lengthwise from the longest wall of the room so that the direction of the floor is horizontal.



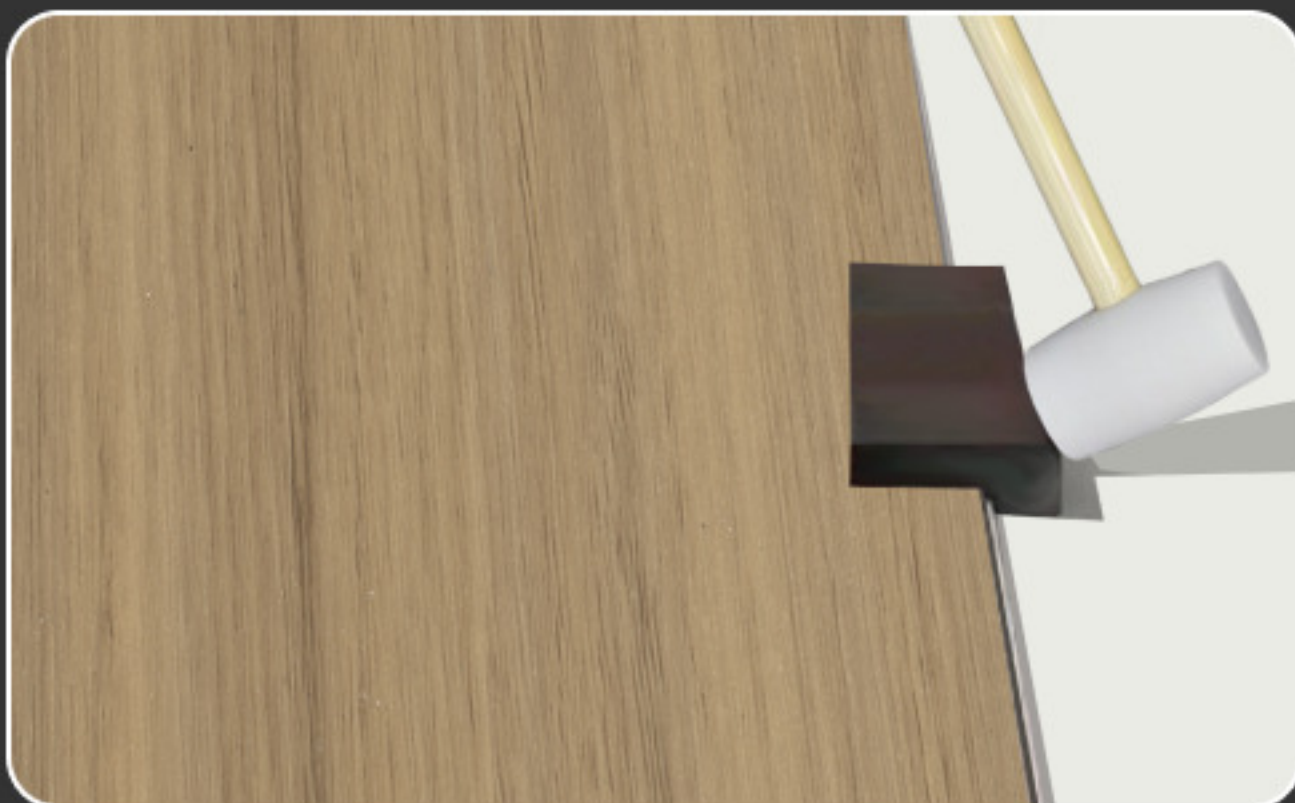
2. Tilt it at a 20-30 degree angle and connect it by inserting it into the next floorboard.



3. Push in until the short sides meet



4. Use a rubber mallet to hit lightly to ensure complete assembly.



5. Fix it using blocks.



6. Attach and secure the last sheet firmly to prevent the joint from being pushed out.

Arranging and cleaning the floor to be constructed ► Checking and preparing the product ► Marking the baseline
► Pre-assembling the baseline ► Installing the product ► Installing auxiliary materials (if necessary)
► Ventilation ► Site organization

NPOZ Construction Case

NPOZ flooring is an eco-friendly material that has the advantage of preventing various risks, keeping everyone safe from unexpected risks. Many people who consider safety more important than anyone else choose our flooring.

School



Public places such as churches



 Home to prevent dangerous situations in advance



 Factories where incidents and accidents are likely to occur



- and many more

Certificate of NPOZ flooring

NPOZ flooring is managed through quality tests and stability tests by verified public testing agencies.

Patent certificate, Pozzolan eco-label certificate, NPOZ flooring eco-label certificate



출원번호 : 제 10-2022-0046328호
포졸란 광석을 이용한 바닥재 및 그 제조방법



인증번호 : 제 28738 호
대상제품 : EL246, 실내용 바닥 장식재
인증사유 : "유해물질 감소, 생활 환경오염 감소"



인증번호 : 제 27145 호
대상제품 : EL246, 실내용 바닥 장식재
인증사유 : "유해물질 감소, 생활 환경오염 감소"



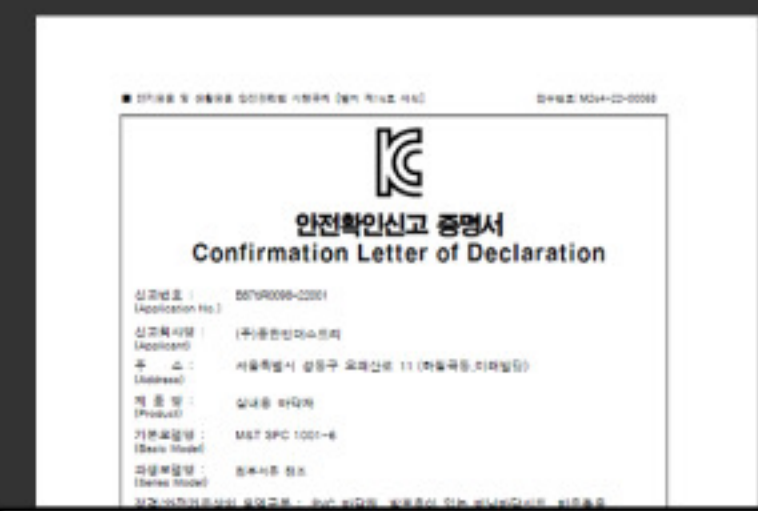
KC safety confirmation certificate



신고번호 : B675R0074-21001
모델구분 : PVC 바닥재, 비닐바닥타일, 혼합질(반경질), 비온돌용



신고번호 : B675R0074-23001
모델구분 : PVC 바닥재, 발포층이 없는 비닐바닥타일, 혼합질(반경질), 비온돌용



신고번호 : B675R0098-22001
모델구분 : PVC 바닥재, 발포층이 있는 비닐바닥타일, 혼합질(반경질), 비온돌용



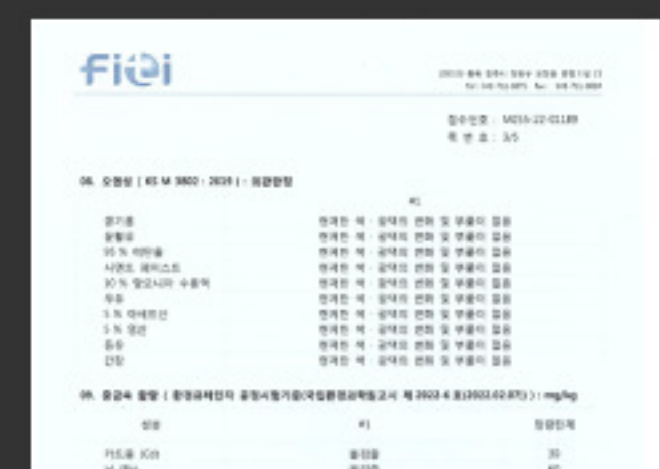
Safety confirmation report



문서 확인 번호 : 6K8S-2NZJ-YGJM



문서 확인 번호 : 6K8S-2NZJ-YGJM



문서 확인 번호 : 6K8S-2NZJ-YGJM



Radon, formaldehyde, far infrared rays



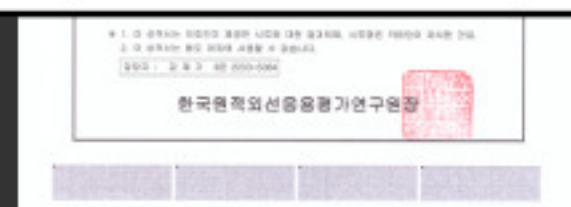
성적서번호 : CT21-102824K



성적서번호 : CT21-102825K



발급번호 : KFI-403



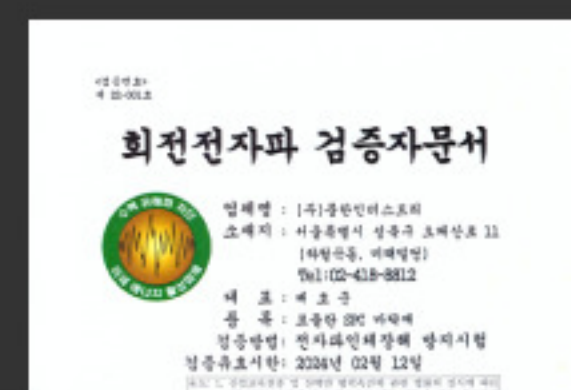
Blocking rotating electromagnetic waves, water veins and harmful electromagnetic waves



검증번호 : 제 22-001 호
검증방법 : 회전전자파(氣)측정시험



검증번호 : 제 22-001 호
검증방법 : 수맥인체장해 방지시험



검증번호 : 제 22-001 호
검증방법 : 전자파인체장해 방지시험



Flame retardant test, ISO14001 certificate, ISO9001 certificate



성적서번호 : 제 2201607 호

