

INVESTOR RELATIONS

2021. 10

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POZZOLAN

- 1. Origin
- 2. Creation
- 3. Features
- 4. Market Summary

02

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- 3. Agriculture
- 4. Livestock
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- 1. Company Overview
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A

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- 1. Licensing & Patents

01

POZZOLAN

- 1. Origin*
- 2. Creation*
- 3. Features*
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POZZOLAN ORIGIN

The background image shows the Pantheon in Rome at dusk. The temple's portico with its massive Corinthian columns is illuminated, and the inscription "M·AGRIPPA·L·F·COSTERTIVM·FECIT" is visible on the frieze. To the left, the Flaminio Obelisk stands tall, topped with a cross. The sky is a mix of deep blue and orange from the setting sun.

The ancient Romans invented the cement method to create UNESCO heritage buildings, a heritage that has been passed down to the present

The Romans used volcanic ash scattered in Pozzoli near Vesvias Volcano in Italy to harden the most important cement in the cementation process and this is the pozzolan. Minerals are given names by place name.

The chemical reaction of cement hardening process using pozzolan discovered by the Romans is still used in modern times, and it is called Pozzolanic reaction, promoting the action of changing the physical properties of concrete in liquid state to solid state

POZZOLAN CREATION

As lava and ash from volcanic eruptions cover the earth's surface and undergo solidification and formation for a long time, various types of rocks and minerals with different physical properties are created through chemical and physical changes.

Although there are differences in composition and properties for each region, pumice stone has most of the same properties through the same process of formation.

The pozzolan we found shares the same production process as pumice, but has completely different physical and chemical properties from pumice.

***“Rare element of the complex mineral
with various physical properties”***

Minerals are inorganic and rarely contain organic matter on their own. There are only few minerals containing about 0.1 to 1% of organic matter, and even if it contains a small amount of organic matter as above.

It is considered very unusual in the mineralogy that our pozzolan contains up to 8% high organic matter. Due to the organic matter content of 8%, it is possible to bake due to the viscosity of the organic matter contained without additional cement or adhesive if bricks are processed with our pozzolan.

Pozzolan is rare element of the complex mineral that has the physical properties of more than 15 minerals and have complex and special properties and functions.

By applying this unique property, it can be used throughout the industry from the manufacturing daily necessities such as antibacterial / anti-fungal products, household containers, pharmaceuticals, construction, textiles, agricultural fertilizers, livestock feed, carbon, and social glass.

The 15 minerals are : silica, talc, feldspar, dolomite, sericite, pyrophyllite, kaolin, pumice, volcanic stone, fluorite, acid, clay, quartz, hematite, calcite, pozzolan, and other sub mineral properties.

*“Rare element of the complex mineral
with various physical properties”*

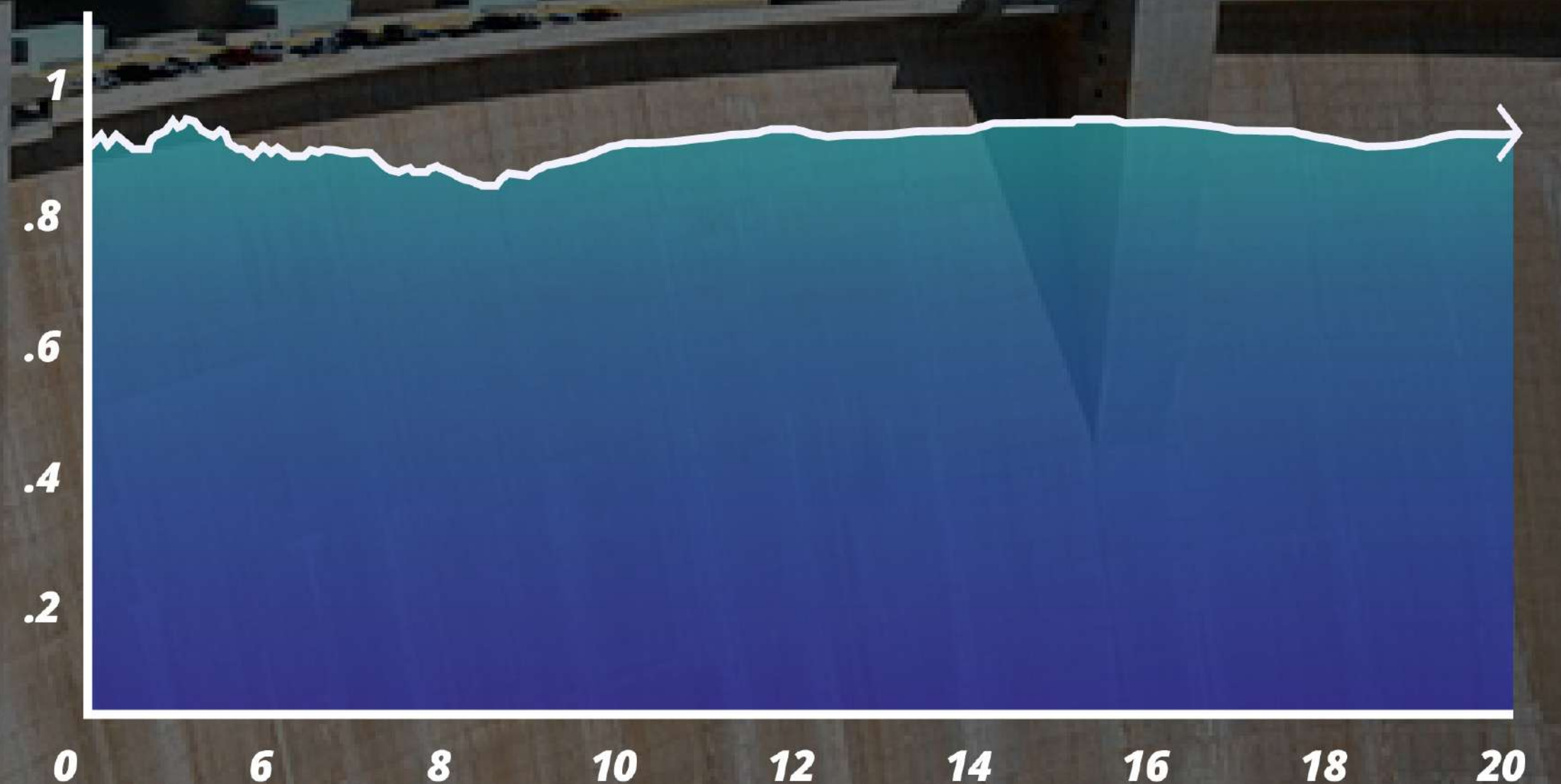


- Radiated energy refers to energy radiated to the entire hemispherical space per unit area/time of the surface of an object.
- The measurement standard for far-infrared rays is to set the temperature at 40°C and measure the emissivity using an infrared spectrometer in the wavelength range of 5-20um.

“The highest level of far-infrared emissivity”

POZZOLAN	<i>Emissivity(range of 5-20um.)</i>	0.925
SERICITE	<i>Emissivity(range of 5-20um.)</i>	0.880
GYPSUM	<i>Emissivity(range of 5-20um.)</i>	0.860
DIATOMITE	<i>Emissivity(range of 5-20um.)</i>	0.850

Pozzolan maintaining 92.5% of the wavelength band over time



- As a result of testing the deodorizing effect using the ammonia gas detection tube method, the deodorizing result of our company's Pozzolan 96.6% was measured.
- The deodorizing effect of cement mortar is 60%, expected to be a breakthrough product in the production of pozzolan mortar products.

“Excellent deodorizing effect”

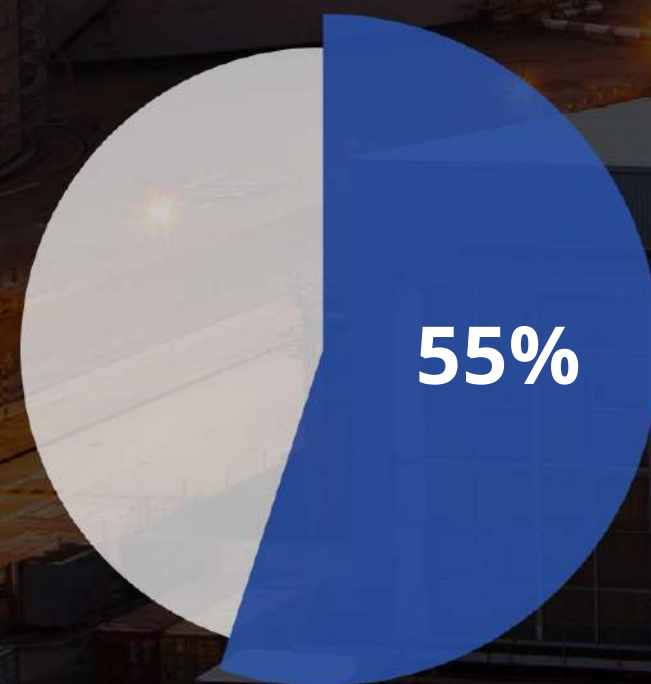
DEODORIZATION TEST			
<i>ELAPSED TIME(M)</i>	<i>BLANK DENSITY(PPM)</i>	<i>SAMPLE DENSITY(PPM)</i>	<i>DEODORIZATION RATE(%)</i>
0	200	200	-
30	176	13	92.6
60	169	9	94.7
90	152	6	96.1
120	145	5	96.6
KICM-FIR-1085			

- New series of SEM grinding plants in the U.S. fuel market growth
- Agricultural Waste containing pozzolanic materials contributes toward development of sustainable concrete.

"The Steadily Growing Market"

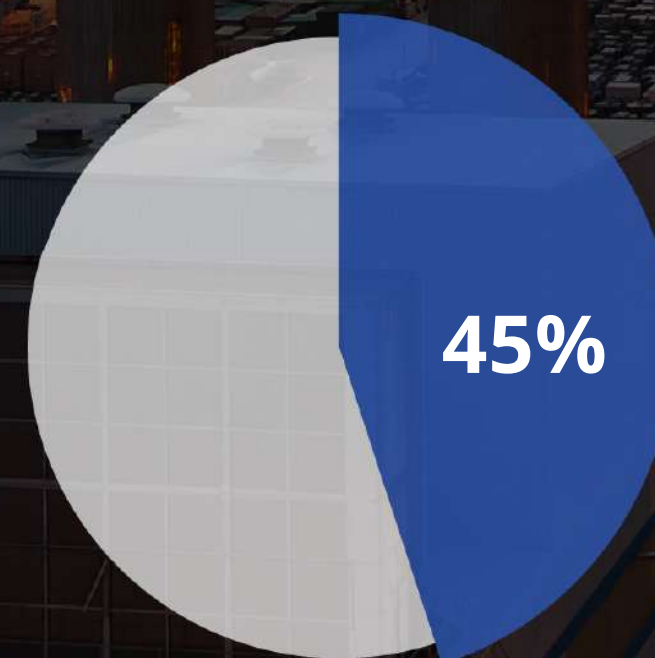
Artificial Pozzolan

- Fly Ash
- Silica Fume
- Blast Furnace Slag
- Glass Powder



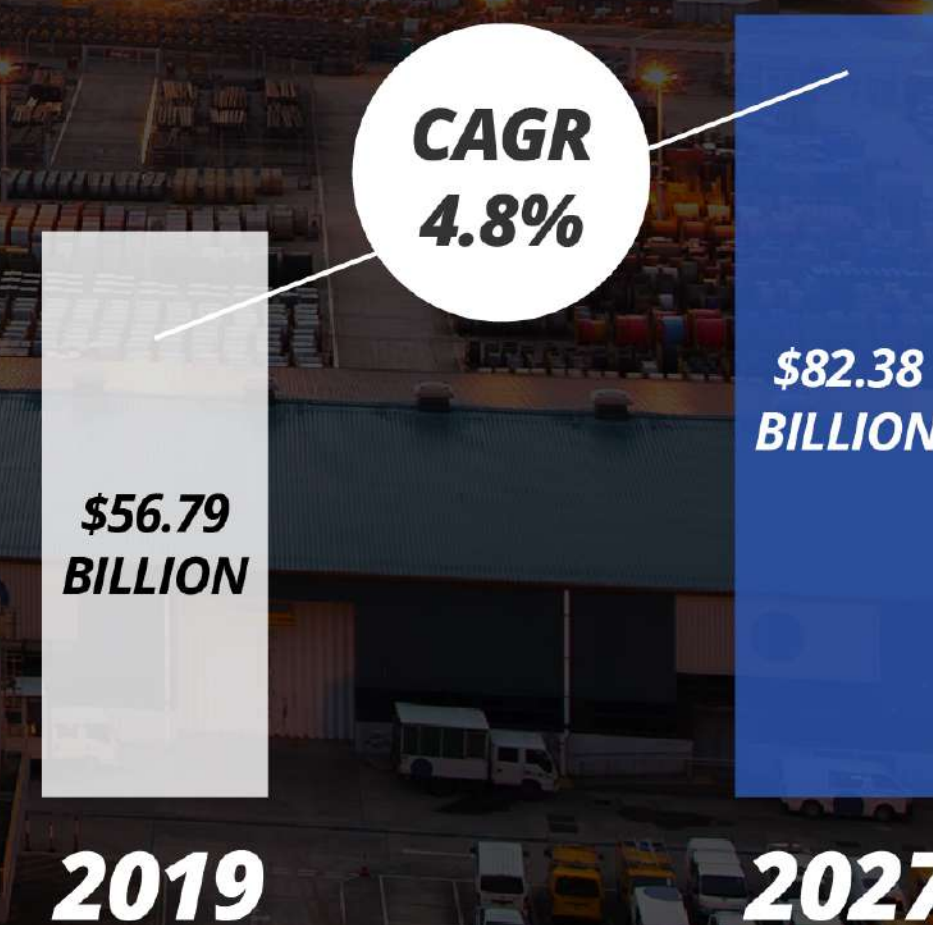
Neutral Pozzolan

- Metakaolin
- Pumicite
- Volcanic Ash & Thff
- Diatomaceous Earth



CAGR ~5%(US\$ 90 Bn)

Market Value 2027



- New series of SEM grinding plants in the U.S. fuel market growth
- Agricultural Waste containing pozzolanic materials contributes toward development of sustainable concrete.

“Concentrated in North America & Asia Pacific”

End Use

Residential

Industrial Plants

Commercial

Roads & Highways

Marine

REGION

NORTH AMERICA

EUROPE

MIDDLE EAST & AFRICA

LATIN AMERICA

ASIA PACIFIC

02

BUSINESS AREAS

- 1. Business Areas*
- 2. Architecture*
- 3. Agriculture*
- 4. Livestock*
- 5. Medical Treatment*

Construction

Eco-friendly paint, interior wall tiles, floor tiles, interior/exterior construction materials, ocher construction additives, roof greening, various building additives, eco-tiles (water vein blocking, humidity/temperature control, metabolism promotion, atopy prevention and treatment)

Agriculture

Pozzolan fertilizer additive (industrial material for organic agriculture), pozzolan fermented compost (livestock manure fermented fertilizer), hydroponics, pollen, bonsai, organic fertilizer additive (promoting growth, improving soil quality, removing mites and preventing pests)

Livestock

Additives for chicken/pig/cow feed (improving livestock immunity, promoting growth, enhancing meat quality, deodorizing livestock & controlling humidity/temperature)

Environment / Fisheries

Environment / Fisheries: Prevention of red and green algae in cage farms, freshwater farms (eel, trout, etc.), improvement and preservation of water quality; pollution-free concrete, eco-friendly business construction materials, water tank purification, aquarium related construction materials, landscaping/park creation

POZZOLAN

Medical Treatment

Raw materials for various medical devices, antibacterial construction materials for hospitals/kindergartens, pressure sores treatment, atopic dermatitis and skin diseases, and materials for regenerating affected areas (blood circulation, antibacterial, metabolism promotion, immunity increase)

Beauty

Soap, shampoo, lotion products including high functional cosmetics, sterilizing and regenerating skin, preventing atopy, improving immune function, blocking harmful ingredients, and promoting metabolism

ARCHITECTURE

- Transform your living environment into a pleasant and healthy space with proven pozzolan.
- It can be used as a one-stop service for paint, gesso, tile, goosebumps, and pozzolan powder for construction, such as wall, ceiling, floor, and plastering additives

“Construction with pozzolan is the way to the highest level of eco-friendliness!”

Features & Effects

- Made of 100% natural material, there is no fading or discoloration, and the effect is semi-permanent.
- Excellent insulation effect – Maximize the effect of reducing cooling/heating costs
- Humidity control, antibacterial and deodorization
- Excellent cell activation (BRS test, Applied Kinesiology test)
- Growth promotion, metabolism promotion, immunity enhancement, atopy prevention
- Complete blockade of Sumack wave (certificate outside Korea Sumack Association)
- Blocking harmful electromagnetic waves and activation of meridians (Experimental data from Ajou University)
- Excellent functional material that cannot be compared with ordinary minerals
- It can be used as the best eco-friendly additive in all fields of construction.
- When constructing, the function of cement and interior material made of ocher soil is increased once more by mixing only 17-20% of pozzolan powder. (Increase compressive strength, prevent cracks, reduce heating costs, block Sumack, increase anti-fungal action and moisture absorption control)

***Sick House
Syndrome***

Germanium

***Energy
Saving***

***Atopy
Prevention***

***Antibacterial
&
Deodorization***

***Sumack
blocking
&
Energy
Release***

***Electromagnetic
Wave
Blocking***

Far infrared

AGRICULTURE —

- Pozzolan fertilizer additive is an organic farming material that can grow the best crops.
- Currently, agriculture is trying to improve the growing environment and protect the value of the environment.
- As a pozzolan fertilizer additive is a natural functional mineral material, crop growth effects can be expected by promoting plant growth, increasing resistance to pests and diseases, maintaining crop freshness, alkalizing acid soil and increasing nutrient absorption through phosphate siliceous substances.

“The best choice for high added value of agricultural products!”

Features & Effects

- Prevention of ticks and pests
- Root augmentation (excellent effect on grass and crop growth)
- Additives for natural growth-promoting granules, soil improvers
- Maintaining freshness of shipped crops
- Containing the largest germanium component in South Korea
- Alkalization and moisture control of acidic soils
- Compared with general fertilizer, superior efficacy, effect and durability
- Compensation for reduction in production, which is a disadvantage of organic farming methods (increase production)
- Product competitiveness and product price increase
- Organic Material Disclosure Statement

***Increasing
Production***

Moisturizing

***Supplying
Soil***

***Preventing
Pests &
Diseases***

***Increasing
Product
Price***

***Promoting
Growth***

***Increasing
Sugar
Content***

***Increasing
Foster
Fermentation***

- The average PH of Korean soil is about 5.0.
- There is a problem in that the soil hardens and the die due to lime poisoning.
- Our pozzolan has a PH of 12.3(Deanna Paint/Ink Test Report).
- Although it is highly alkaline, it is completely decomposed when used as a soil improver to soften the soil and increase the yield of crops.

“The best alkaline mineral in existence”

QUICKLIME

PH 11~12

VS

POZZOLAN

PH 11~12.3

LIVESTOCK —

- Pozzolan satisfies all of these factors: strengthening immunity, promoting sexual growth, and improving meat quality.
- DOGOD's natural feed additive pozzolan is an eco-friendly feed additive mainly made of high-quality natural materials that have all the eco-friendly elements and have the best ingredients among the existing natural pozzolan and the advantages of other soil.

“The best supplementary feed additive for livestock of this era!”

Features & Effects

- Strengthen immunity from various harmful diseases
- Growth promotion and improved meat quality
- Strong deodorization of livestock and control of humidity/temperature
- Increase in fertility
- Improved livestock and surrounding environment with excellent antibacterial performance
- Compared to general additives and price, superior efficacy, effect and durability
- Made of 100% natural ingredients, no side effects.
- Product competitiveness and product price increase

Improving
Meat
Quality

Increasing
Livestock
Value

Improving
Livestock
Environment

Increasing
Fertility
Rate

Immune
Function

Growth
Promotion

Deodorizing
Effect of
Livestock

Feed
Additive

MEDICAL — TREATMENT —

- Pozzolan is composed of more than 50 elements and contains dozens of minerals and rare elements such as germanium, vanadium, and selenium known as miracle substances.
- We plan to develop medical supplements such as antioxidants, and food and pharmaceutical related products.
- Especially, there have been active researches and developments of vanadium and selenium in the medical industry for serious diseases such cancer and diabetes



03

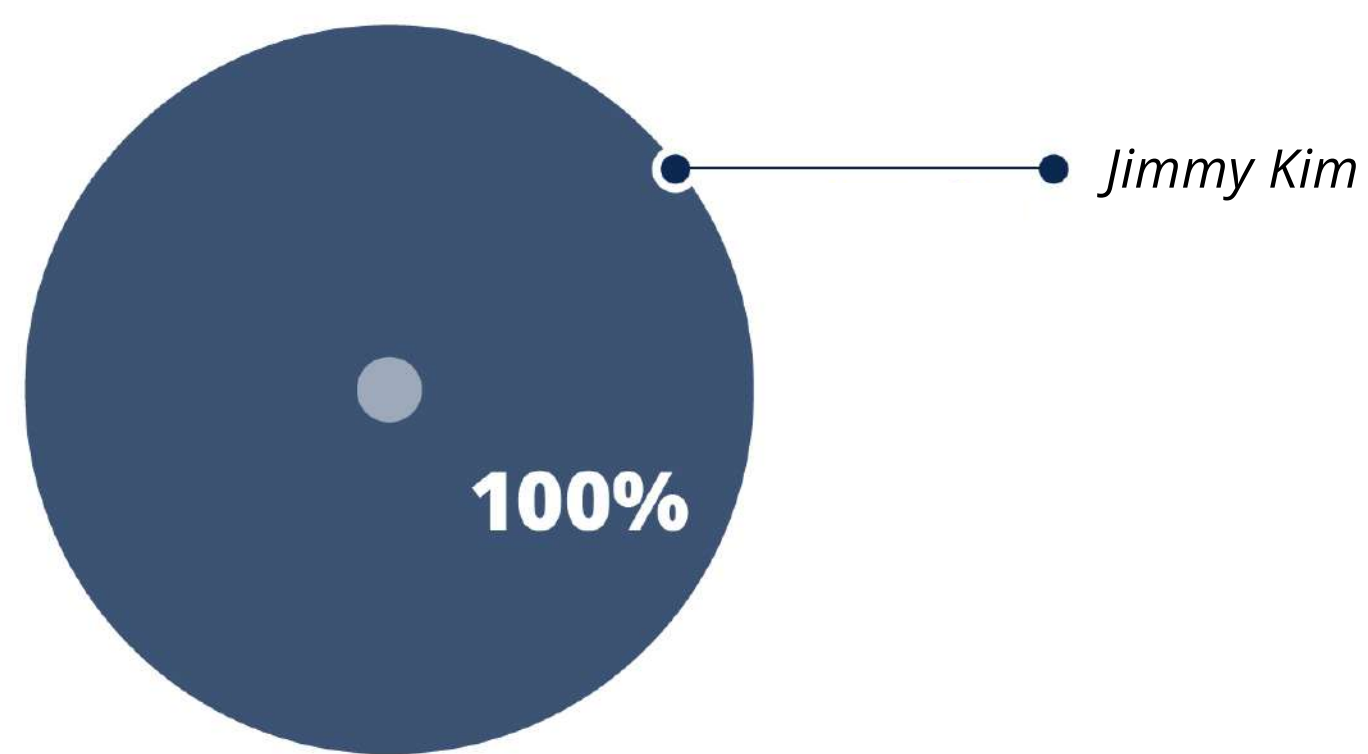
HSMC Inc.

- 1. Company Overview*
- 2. Core Members*
- 3. Korea Pozzolan Inc.*

Company Overview

Name	HSMC Inc.
CEO	Jimmy Kim
Industry	Distribution, R&D for Mineral and Natural Resources
Establishment	Oct. 2021
Address	38, Gaminam-ro 20beon-gil, Hanam-si, Gyeonggi-do
Number of Employees	5

Shareholders (As of Oct. 2021)



Main Businesses



01

Distributing Natural Resources

02

R&D for Natural Resources

03

Consulting distributing and mining companies

04

Marketing & Branding

- All the HSMC members are experts in various fields



Jimmy Kim
CEO / Founder

- 500V2 / CEO
- Zeroweb / VP
- LG Electronics / GM



Minwoo Park
COO / Co-Founder

- 500V2 / CEO
- Media Woom / CEO
- LG Electronics Inc. / GM



Youngjoo Oh
CMO / Co-Founder

- Boris Korea / CEO
- Foresting Inc. / Director
- Seang / CEO



Daniel Eom
CSO / Co-Founder

- Foresting Inc. / CEO
- 500V2 / Director
- McKinsey & Company / BA

- HSMC Inc. signed an exclusive contract with Korea Pozzolan Inc. for distributing Pozzolan mined in Korea.
- HSMC is going to have a head quarter office in Singapore to expand the businesses to global level.



1. Contributing Natural Resources
2. R&D for Natural Resources
3. Marketing & Branding

1. Owning Mining Right for Pozzolan
2. Finding and Mining Pozzolan
3. R&D for Pozzolan

Company History

1975

Established

Daesung Mining Inc.
Kim Sang-yeol / CEO

1981

Changed the company name

Korea Sericite Inc.

1984

Found pozzolan

Korea' fist discovery
(Block 1 & 2)

1986

Changed the company name

Geogwang Inc.

Exclusive contract

with C-Com Engineering in Japn

Pozzolan Japan edition(for complete waste storage)

1988

Passed Samsung Corning Inc.

Test Result Request

Pozzolan CRT Abrasive

1990

Designation of Import Substitute Items

Pozzolan Import Substitutue Product Designation Notice

Started to develop pozzolan bricks

1991

Attended Osaka Trade Fair

Gold Award for Pozzolan Brick Exhibition

1992

Completed to Develop pozzolan bricks

Proof of excellence as a result of testing and analysis
by the Ceramic Technology Institute

Pozzolan mortar & light aggregate development

1993

Developed pozzolan carbon

Developed pozzolan special glass

1994

Completed to build the pozzolan brick factory

Started supplying to Ilsan New City(400,000 ton received)

**Designated as a special military service business
by the Military Manpower Administration**

2005

Mining ban(Block 1 & 2)

Prohibition of mining due to installation
of high-voltage transmission lines

Found Pozzolan

Brick 3 & 4

Changed the company name

Korea Pozzolan Inc.

2009

**Registration of mining rights
for Block 3 & 4**

2012

Extended the mining right

2020

Constructed Block 3 & 4 infrastructure

Road, field office, etc

2021

Mining in Block 3

November 2021

- The pozzolan mine owned by Korea Pozzolan Inc. can be produced for at least \$5 billion.
- When Pozzolan products are developed and commercialized, they can create hundred times more than its current value.

Potentials of Korea Pozzolan Inc.



Pozzolan Reserves

10,000,000 ton



Value

\$5,000,000,000

< Minimum price of 1 ton : \$500 >



Time

270 Years

< Daily production : 100 tons >

Milestone of Korea Pozzolan Inc.

2021



● **\$5 Million in Sales**

- Crushed pozzolan sale
- Concentrated for improving fertilized land and cover and water purification
- Prepare to build the factory 1

2023



● **\$50 Million in Sales**

- Complete to build the factory 1
- Concentrate for improving fertilized land and cover and water purification
- Develop building materials
- Prepare to build the factory 2
- Export fertilizer and buiding materials

2025



● **\$200 Million in Sales**

- Complete to build the factory 2
- Develop and directly sell cosmetics, negative ions, and varnish
- IPO to KOSDAQ
- Establish overseas branches (Asia Pacific)

2027



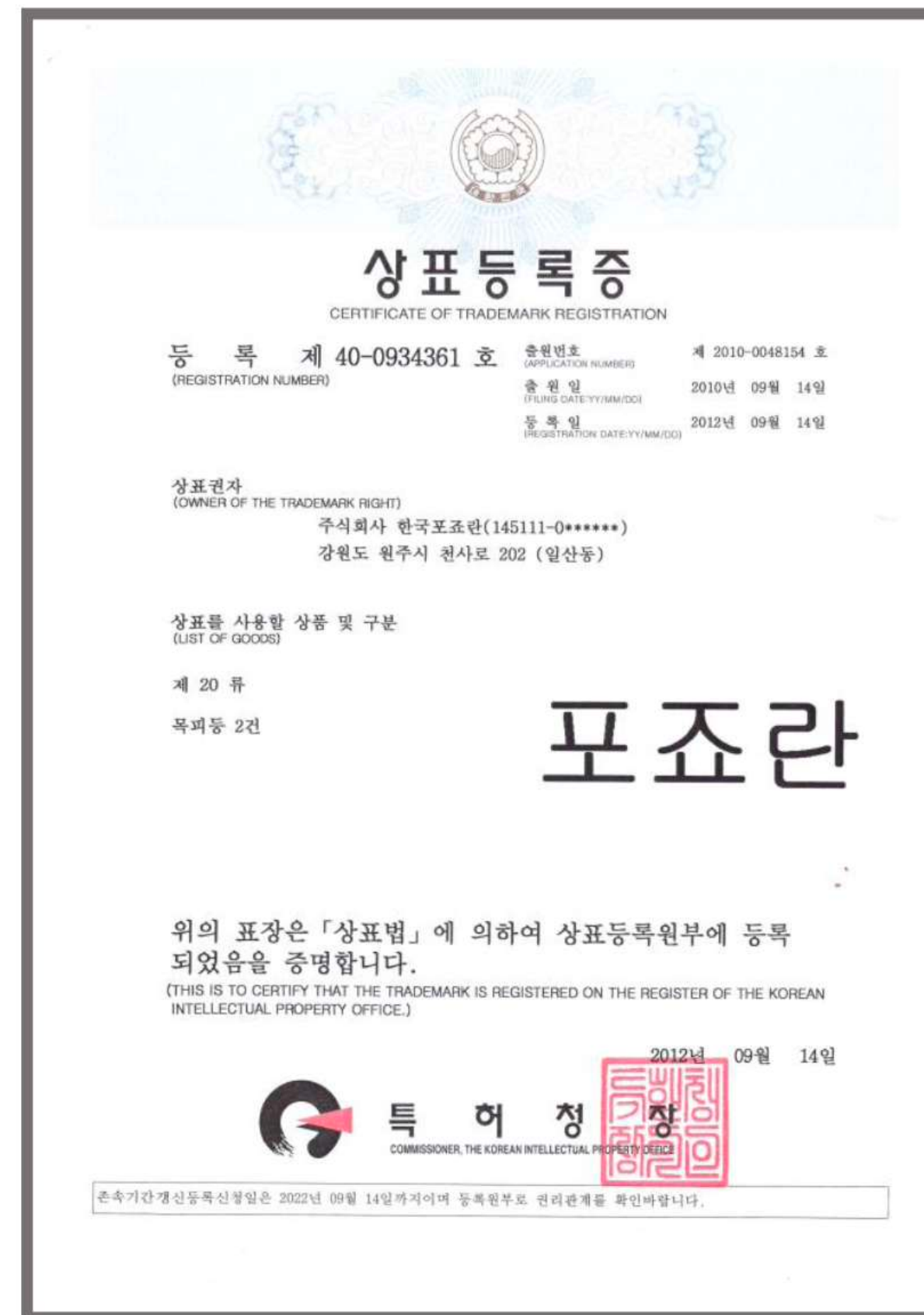
● **\$500 Million in Sales**

- Complete to build the factory 3
- Develop and directly sell building materials
- Develop and directly sell building materials
- Establish overseas branches (Italy & USA)

4

APPENDIX

- 1. Licensing & Patents*
- 2. Pozzolan Reserves & Price Calculation*





상표등록증
CERTIFICATE OF TRADEMARK REGISTRATION

등록 제 40-1130328 호
Registration Number

출원번호 제 40-2015-0006756 호
Application Number

출원일 2015년 01월 29일
Filing Date

등록일 2015년 09월 15일
Registration Date

상표권자 Owner of the Trademark Right
주식회사 한국포조란(145111-0*****)
강원도 원주시 천사로 202 (일산동)

상표를 사용할 상품 및 구분
List Of Goods
제 03 류
식품용 향미료(정유)등 19건

퍼믹스포조란

위의 표장은 「상표법」에 따라 상표등록원부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Trademark Act, a trademark has been registered at the Korean Intellectual Property Office.



2015년 09월 15일

특허청장
COMMISSIONER,
KOREAN INTELLECTUAL PROPERTY OFFICE

최 동 규



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제 02 류
금속보호제등 20건

퍼믹스포조란

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상표등록증
CERTIFICATE OF TRADEMARK REGISTRATION

등록 제 40-0942935 호
Registration Number

출원번호 제 2011-0014240 호
Application Number

출원일 2011년 03월 21일
Filing Date

등록일 2012년 12월 03일
Registration Date

상표권자
(OWNER OF THE TRADEMARK RIGHT)
주식회사 한국포조란(145111-0*****)
강원도 원주시 천사로 202 (일산동)

상표를 사용할 상품 및 구분
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제 14 류
온글등 152건

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2012년 12월 03일

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COMMISSIONER, THE KOREAN INTELLECTUAL PROPERTY OFFICE



온글기간갱신등록신청일은 2022년 12월 03일까지이며 등록원부로 권리관계를 확인바랍니다.



상표등록증
CERTIFICATE OF TRADEMARK REGISTRATION

등록 Registration Number	제 40-1130328 호
출원번호 Application Number	제 40-2015-0006756 호
출원일 Filing Date	2015년 01월 29일
등록일 Registration Date	2015년 09월 15일

상표권자 Owner of the Trademark Right
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THANK YOU