





PRODUCTS CATALOG

Sustainable architectural solutions created using eco-friendly composite waterproofing methods

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Using Patented Elastic Composite Materials?			

PRODUCT INTRODUCTION

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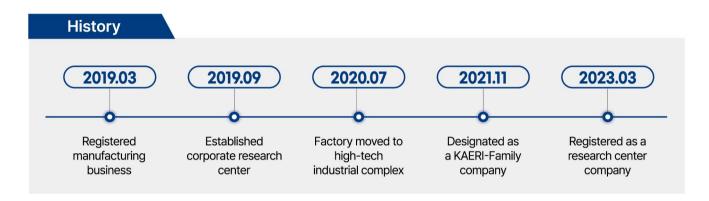
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CEO Message

Hello. We are Heaven Korea.

We, Heaven Korea Co., Ltd., are contributing to the development of the construction industry with our human resources with extensive experience, cutting-edge technology, and efficient systems. In addition, as a family company and research company of the Korea Atomic Energy Research Institute, we always think from the customer's perspective and pursue strong trust based on the principle of providing the best quality and service. We will promise to fulfill our duties and responsibilities by adhering to our basics and principles in the future. Thank you



01 Registrations & Certifications







Registration No. 40-1580763 Radon Keeper Trademark Registration



Registration No. 30-1133847 **Spray Gun Air Curtain Generator**



ISO 9001 Quality Management System Certification



Registration No. 40-1577611 Aquakeeper Trademark Registration



Registration No. 40-1580763 Radon Keeper Trademark Registration



Registration No. 30-1133847 **Spray Gun Air Curtain Generator**



ISO 9001 Quality Management System Certification

02 Patents



Patent No. 10-1870122 Rooftop floor repair method



Patent No. 10-2193983
Underground parking lot floor repair method



Patent No. 10-2193241
Exterior wall crack repair method



Patent No. 10-2212396 Radon barrier repair method



Patent No. 10-2159754 Radon barrier manufacturing method



Patent No. 10-1856735 Stirring device for elastic composite compound



Patent No. 10-2242599 Spray gun for preventing scattering



Patent No. 10-2202037 Earthquake-resistant design maintenance



Patent No. 10-2707137

Method for Manufacturing

Loess Concrete



Patent No. 10-2773164
Eco-Friendly Coating
Waterproofing Method



Patent No. 10-22773166

Method for Manufacturing
and Applying
Radon Blocking Agent



Patent No. 10-2773168
Reinforced Soil
Retaining Wall Block



Patent No. 10-2254926 Masonry repair method



Patent No. 10-2290148 Shingles-installed surface repair method



Patent No. 10-2340479
Radon Blocking Agent
Spraying Device



Patent No. 10-2353471
Air curtain type spray gun for preventing scattering



Patent No. 10-2479226 Road construction method using soil harder

AQUAKEEPER OVERVIEW

Introduction to the Aqua Keeper Method

What is the Composite Method
Using Patented Elastic Composite Materials?

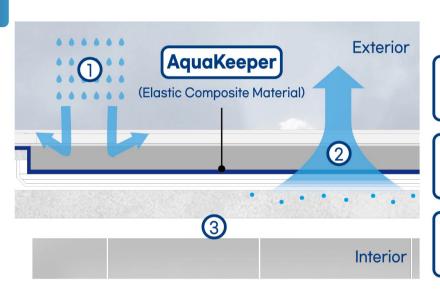
Introduction to the Aqua Keeper Product

- 1. AquaKeeper 100 Water Repellent
- 2. AquaKeeper 500 Primer
- 3. AquaKeeper 1000 Waterproofing & Repair

Introduction to the Aqua Keeper Method

What is the Composite Method Using Patented Elastic Composite Materials?

- Overview
- First, uses eco-friendly elastic composite material.
- Second, offers stronger adhesion and durability than conventional methods.
- Third, resists impact at repair sites, lasts long, and is cost-effective.



Principle of Unidirectional Permeability

Blocks moisture from outside

Releases internal vapor through air pressure

Prevents indoor condensation from temperature difference

Unique Method Usable Even on Wet Surfaces

Allowable Moisture Content by Coating Type

• Urethane waterproofing:≤5%

Epoxy coating : ≤ 6%

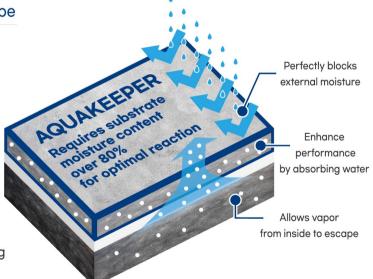
Shingle waterproofing :≤10%

Acrylic waterproofing :≤ 25%

Sites Where Moisture Content Is Critical

- · Outdoor floors right after rain
- · Damp underground parking lots
- · Wet-use areas (bathrooms, mechanical rooms)
- Public/commercial spaces needing fast reopening

Issues When Moisture Limits Are Ignored





△







Peeling and delamination

Weakened adhesion

Blistering

Cracks and fractures

Mold and bacterial growth

Introduction to the Aqua Keeper Product

1. AK-100 Water Repellent



AK-100 is a silicone-free, eco-friendly water-based repellent. It leaves no streaks or "tear marks", ensuring a clean finish while maintaining the surface's original appearance.

It offers excellent water repellency and long-lasting performance.

The fast-drying formula increases work efficiency
and allows for simple application.

Туре	Water-based elastic composite repellent
Form	Liquid, milky white (becomes colorless after drying)
Packaging	15KG pail (4 gallons)
Coverage	Approx. 130 m² (1400 ft²) per 15kg
Applications	Brick, concrete, cement plaster, Dryvit, tile, etc.

Application Method



Apply AK-100
 evenly using a spray gun.

② Check for uniform coating.

③ Transparent waterproof layer forms after drying.

Construction Method

- ① Clean the surface of any dust or debris.
- ② Spray evenly, avoiding over-application in one spot.

Key Feature



% No tear stains, unlike silicone-based products.

Construction Photos







Introduction to the Aqua Keeper Product 2. AK-500 Primer



AK-500 is a high-performance water-based primer. It maximizes adhesion between the substrate and topcoats like AK-1000.

It delivers excellent adhesion even on damp surfaces, and is compatible with concrete, cement, tiles, and more.

Туре	Water-based elastic composite primer
Form	Liquid, milky white (dries clear)
Packaging	15KG pail (4 gallons)
Coverage	Approx. 130 m² (1400 ft²) per 15kg
Applications	Rooftops, exterior walls, underground parking lots, concrete structures, water tanks, L-shaped gutters, fire-sensitive areas

Key Features



1. Uniform Coating Layer

Forms a thin, even film with excellent flow and viscosity.



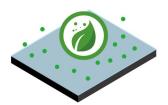
2. Can Be Applied on Wet Surfaces

No delay even after rain or on damp bases.



3. Strong Adhesion

Bonds tightly to concrete, cement, tiles, and boosts topcoat adhesion.



4. Water-Based & Solvent-Free

Low odor, humanand eco-friendly.



5. Excellent Compatibility

Compatible with urethane, acrylic, epoxy, etc.



6. Streamlined Process

Fast drying allows quicker next steps.



7. Overlay Possible

Can be applied on existing waterproof layers.



8. Easy to Apply

Brush, roller, or spray-friendly.



9. Improved Durability

Enhances durability and heat resistance. (with AK-1000)

Introduction to the Aqua Keeper Product 3. AK-1000 Waterproofing & Repair



AK-1000 is a high-elasticity, high-strength water-based composite material, designed for eco-friendly waterproofing and repair across various structures.

Туре	Water-based elastic composite waterproofing/repair
Form	Two-component mortar (gray)
Mix Ratio (A:B)	1:5 (by weight)
Packaging	- Part A: 15kg (4 gal) pail - Part B: 25kg (55 lb) bag
Coverage	16 m² (172 ft²) per 15kg (at 3mm thickness)
적용 부위	Rooftops, exterior walls, underground parking lots concrete structures, water tanks, L-shaped gutters, fire-sensitive areas

Key Features

Mixing Instructions



Cures on damp surfaces



Short drying time



Cost-saving



Eco-friendly and efficient and solvent-free



Excellent adhesion



Outstanding flexibility



High strength



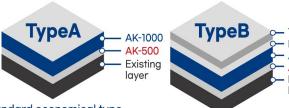
Thermal and durability insulation effect



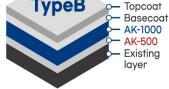
Mix water (15kg) with Part A (15kg) in a 1:1 ratio.

* Mix Part A and water thoroughly before adding Part B.

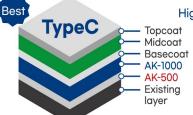
Types of Use Cases



Standard economical type for general efficiency and cost reduction



Compromise type for exterior walls and fences



High-performance hybrid type strong compatibility with other topcoats

> and finishes thanks to Aqua Keeper's

unique elasticity and bonding strength

* Topcoat, midcoat, and basecoat may vary depending on site conditions.

2.

After fully mixing A and water, gradually add Part B (75kg, 3 bags) and mix thoroughly.



Final ratio A: Water: B = 1:1:5

AQUAKEEPER APPLICATION METHODS

- Rooftop Waterproofing & Repair
 (Patent No. 10-1870122)
- 2. Underground Parking Lot Waterproofing & Repair (Patent No. 10-2193983)
- Shingle Roof Waterproofing & Repair (Patent No. 10-2290148)
- Exterior Wall Crack Repair & Coating (Patent No. 10-2193241)
- **5. Masonry Surface** Repair & Finishing (Patent No. 10-2254926)
- 6. Balcony Window Frame Area Repair

1. Rooftop Waterproofing & Repair

(Patent No. 10-1870122)

Patented Construction Method



① Base Surface Preparation ② AK-1000 Base Repair



3 AK-500 Primer

Remove contaminants and clean the surface thoroughly for smoothness.

Fill cracks, voids, or irregularities to reinforce and smoothen the surface.

Apply moisture (≥80%) or AK-500 primer to enhance adhesion. (Apply twice if necessary)



4 AK-1000 Application

Within 12-24 hours after primer, apply AK-1000 at approx. 3-5mm thickness.



5 Base & Middle Coat

Apply urethane coating 2-3 times within 24 hours to desired thickness.



6 Top Coat

Repair pinholes as needed, then apply a colored top coat to exposed areas.

Construction Photos



Rooftop waterproofing (Type A)



Rooftop waterproofing (Type B, C)



Rooftop waterproofing (Type B, C)

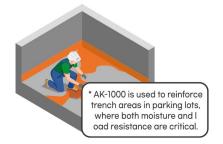
Applicat	ion Area	(AK-1000(A)					AK-1000(B)
Doofton	Floor	(15kg	+	15kg)	+	3bag(75kg)
Roottop	Wall	(15kg	+	15kg)	+	4bag(100kg)

2. Underground Parking Lot Waterproofing & Repair

(Patent No. 10-2193983)

Patented Construction Method







1) Base Surface Preparation 2 AK-1000 Base Repair

3 AK-500 Primer

Remove contaminants and clean the surface thoroughly for smoothness.

Fill cracks, voids, or irregularities to reinforce and smoothen the surface.

Apply moisture (≥80%) or AK-500 primer to enhance adhesion. (Apply twice if necessary)



4 AK-1000 Application

Within 12-24 hours after primer, apply AK-1000 at approx. 3-5mm thickness.



(5) Base & Middle Coat

Use a roller or sprayer to apply evenly on a clean surface. Then apply the topcoat color.



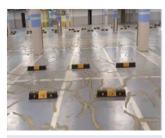
6 Top Coat

Apply epoxy coating 1-2 times within 24 hours to achieve desired film thickness.

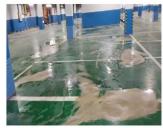
Construction Photos







Floor crack and joint repair



Partial floor repair



Full surface floor coating

Applicati	on Area	(7.11.4 1000017	+				AK-1000(B)
Underground	Floor	(15kg	+	15kg)	+	3bag(75kg)
Underground parking lot	Wall	(15kg	+	15kg)	+	4bag(100kg)

3. Shingle Roof Waterproofing & Repair

(Patent No. 10-2290148)

Patented Construction Method



1) Shingle Surface Preparation

Fix any loose or unstable shingles with nails and level the surface evenly.



4 First Coat of AK-1000

Mix and apply AK-1000 to the specified thickness.



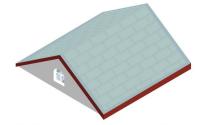
② Flashing Installation

Install flashing along structural edges to block water infiltration.



5 Second Coat of AK-1000

Apply AK-1000 again as needed based on site conditions.



3 Reinforcement Mesh Attachment

Attach mesh to prevent crack spreading and absorb external impacts.



Mix AK-1000 Part A with "Shingletan" and apply evenly to form the final shingle surface.

Construction Photos







Mesh reinforcement



AK-1000 application



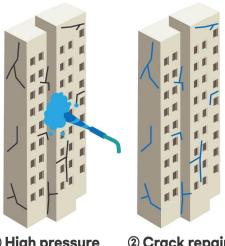
Construction completed

Applicati	on Area	(AK-1000(A)		+	Water)	+	AK-1000(B) or Resin mortar	
Shingle surface	Base coat & middle coat	(15kg	+	15kg)	+	3bag(75kg)	
Applicati	on Area		AK-1000(A)	+ Sh	ingle	tan	(Shingle finish coat)	
Shingle surface Top coat			15kg		+		5	pail(80kg)	

4. Exterior Wall Crack Repair & Coating

(Patent No. 10-2193241)

Patented Construction Method









1) High pressure washing

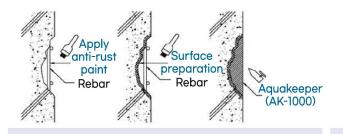
② Crack repair (AK-1000)

3 Binder (AK-500)

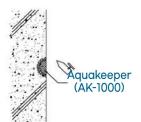
4 Exterior coating (water-based paint)

⑤ Graphic finish

Construction Photos







Section view of exterior wall mortar repair (rebar exposed)

Section view of exterior wall mortar repair









Applicat	ion Area	(AK-1000(A)	+	Water)	+ R	esin mortar
	Wall	(2L	+	2L)	+	20kg
Crack repair	Microcracks	(2L	+	2L)	+	20kg
·	Deep areas	(1L	+	1L)	+	20kg



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