



# Waterproof Coatings





## KASTAR 4000

### Silicone Roof Coating



Silicone elastic waterproof coating, non-corrosive, high elongation, strong waterproof function. It is specially developed for building exposed roof. The product chemical properties: high and low temperature resistance, ultraviolet resistance, acid and alkali resistance, oil and water resistance and electrical insulation; Excellent adhesion and compatibility; Easy maintenance. It is one of the best weatherproof products available.

#### Characteristics:

1. Weather resistance
2. Corrosion resistance
3. Waterproof
4. UV resistant
5. Acid and alkali resistance
6. Oil and water resistance Electrical insulation
7. High and low temperature resistance

#### Applications:

1. Suitable for the underground space of the building and the surface of the color steel tiles;
2. Suitable for insulation protection of all kinds of equipment, such as substation equipment, power distribution equipment, transmission equipment etc.;
3. Waterproofing of building roof.



## KASTAR 91

### MS Polyether Waterproof Coating



MS Polyether Waterproof Coating is specially designed for building waterproof products, environmental-friendly, low VOC content, without irritating odour in use of the process, by reaction with moisture curing seamless elastic waterproof membrane formation, non-corrosive, excellent bonding performance, and it has good compatibility with other material, more durable waterproof performance than traditional polyurethane coating.

#### Characteristics:

1. Non-toxic
2. Waterproof
3. Non-corrosive
4. Weatherproof
5. Low VOC
6. Strong viscosity
7. No irritating odour
8. Long-lasting waterproof effect

#### Applications:

1. Balconies
2. Building underground
3. Building roof
4. indoor toilet





## KASTAR 92

Clear MS Polyether Waterproof Coating



Kastar92 Clear MS Polyether Waterproof Coating is one part silane polymer based coating and can dry quickly under the condition of moisture. The product is green and environmental friendly, with features of low odor, low viscosity, good adhesion, fast curing, excellent weather resistance, easy to construction. It's clear transparent, and form invisible coating over the base materials.

### Applications:

Suitable for home decoration, indoor and outdoor waterproofing, such as, bathroom, kitchen, balcony, windowsill, floor, wall, swimming pool, etc.



## KASTAR 72

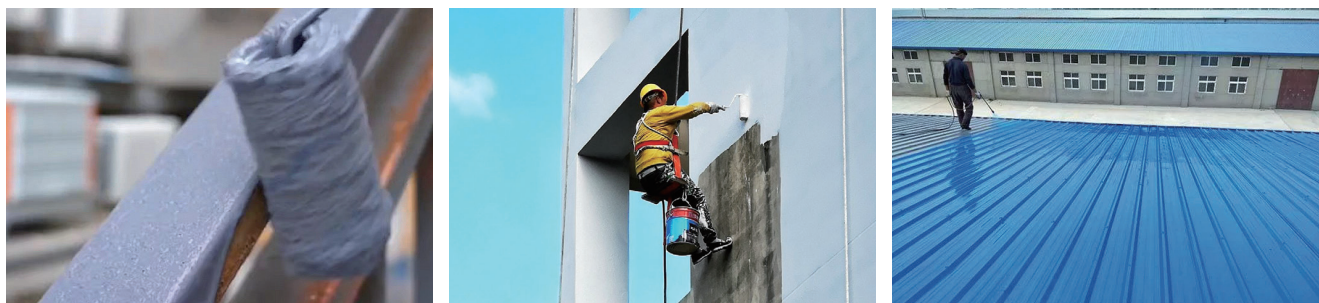
Silicone Exterior Wall Coating



Kastar72 Silicone Exterior Wall Coating is one part silicone based coating for exterior wall. It' with features of non-corrosive, strong waterproof function, high & low temperature resistance, ultraviolet resistance, acid and alkali resistance, oil and water resistance, electrical insulation and other chemical properties, excellent adhesion and compatibility, easy maintenance. Therefore, it is one of the best outdoor waterproof weather-resistant products for exterior walls.

### Applications:

1. Exterior wall waterproofing for commercial and private residences.
2. Suitable for metal surface anti-corrosion, such as: building steel structure, aluminum alloy profiles, underground space, color steel roof surfaces.





### Storage conditions:

- (1) The coating must be stored in a ventilated and dry place greater than 0°C warehouse.
- (2) The coating should not be in contact with water; if it happens, it will cure quickly.
- (3) After opening, the product should be kept sealed and used as quickly as possible .

### How to use:

- (1) Base layer treatment: The surface of the base layer is required to be clean and solid, and sanding, floating dust and other phenomena are not allowed.
- (2) Joint treatment: if there are cracks above 3mm on the surface, MS sealant should be filled, and the coating should be applied after drying.
- (3) Construction method: The construction can be scraping, rolling and spraying, generally brushing 2 times, the reference amount of each coating is about 1kg/m<sup>2</sup> ( 0.3-0.5kg/m<sup>2</sup> for Kastar92) , the total thickness of the coating film is 0.8-1mm, and the coating interval is 4-12h, depending on the weather conditions.
- (4) Recommended dosage 1-2kg/m<sup>2</sup> ( 0.3-0.5kg/m<sup>2</sup> for Kastar92)

### Application methods:





# Technical Datasheet for Kastar Waterproof Coatings

No.	Inspection Item	Kastar4000	Kastar91	Kastar92	Kastar72
1	Ingredient	Single component	Single component	Single component	Single component
2	Intensity	Medium intensity	Medium intensity	Medium intensity	Medium intensity
3	Curing	Moisture curing	Moisture curing	Moisture curing	Moisture curing
4	Uses	Flat waterproofing	Flat waterproofing	Flat waterproofing	Vertical wall waterproofing
5	Resin Type	Silicone	Modified Silane	Modified Silane	Silicone
6	Color	White, gray, black, customized	White, gray, black, customized	Transparent	White, gray, customized
7	Density (g/cm <sup>3</sup> )	1.21	1.26	1.21	1.21±0.05g
8	Viscosity (25°C cps)	25 000	28 000	10 000	/
9	Full Solidification Time	48 hours	48 hours	24	48
10	Surface Dry Time	≈ 30mins	≈ 35mins	≈ 35mins	≈ 30mins
11	Solid by Weight %	98	35	98	94
12	Tensile Strength (N/mm <sup>2</sup> )	1.1 -1.2	1.1-1.5	5.8	1.1 -1.2
13	Hardness (Shore)	42	29	86	42
14	Elongation %	200	350-500	112.5	200
15	Shelf life (months)	12	12	12	12
16	Water Resistance	Excellent	Excellent	Excellent	Excellent
17	Chemical Resistance	Excellent	Very good	Very good	Excellent
18	Weather Resistance	Excellent	Very Good	Very Good	Excellent
19	UV / Aging resistance	Excellent	Very Good	Very Good	Excellent
20	Service life span	25 years	15 years	10+ years	20+ years



## KASTAR 817

Polyurea Waterproof Coating



Kastar 817 Polyurea Waterproof Coating is a high-performance, two-component, hot spray applied pure polyurea coating. Developed for heavy-duty waterproofing and anti-corrosion protection, it utilizes advanced technology to achieve rapid curing, forming a seamless, high-strength, high elongation, and elastic waterproof membrane. As an industrial-grade protective coating, it provides an effective barrier against water, abrasion, chemical erosion and mechanical impact. It requires professional hot-spray equipment for application to ensure construction quality.

### Product Features:



Ultra Fast Curing



Seamless Membrane



Excellent Waterproof Performance



Excellent Crack Tracking Performance

### Scope of application:

- **Municipal Engineering:** High-speed rail bridge decks, tunnels, subway systems, and transit hubs.
- **Industrial Infrastructure:** Chemical secondary containment, reaction vessels, and heavy-duty flooring.
- **Water & Marine Engineering:** Dams, reservoirs, sea-crossing bridges, and offshore facilities.
- **Commercial Construction:** Large-scale roofing, podium decks, and underground foundations.



## KASTAR 818

Cold Applied Polyurea coating



Kastar 818 Cold Applied Polyurea Coating is an innovative third-generation cold-applied elastomeric modified polyurea coating, marking a significant upgrade in polyurea technology. It offers the premium protective performance of traditional polyurea without the need for specialized heating equipment, greatly reducing construction costs and improving construction convenience. Designed for high efficiency and ease of operation, it cures rapidly at ambient temperature to form a seamless, high-elongation waterproof shield. It is recognized as one of the most advanced and versatile waterproofing solutions worldwide, suitable for a wide range of construction scenarios.

### Product Features:



Easy Manual Application



Self-Leveling Seamless Finish



Excellent Adhesion & Detail Versatility



Superior Elongation & Crack Bridging

### Scope of application:

- **Building Construction:** Premium residential roofing, basements, balconies, and wet rooms (bathrooms/kitchens).
- **Urban Infrastructure:** Pipe galleries, pedestrian bridges, and urban subway structures.
- **Water Conservancy:** Water tanks, decorative pools, and wastewater treatment facilities.
- **Specialty Projects:** Joint sealing, repair of existing waterproof layers, and anti-corrosion for industrial steel structures.





# Wall Protection Coatings





## KASTAR 21

### Interior Wall Coating



Free of formaldehyde, is safe and comfortable breathing. This product adds bamboo charcoal factor, which has super adsorption capacity, cyclically decomposes and adsorbs harmful substances such as formaldehyde, acetaldehyde, hydrogen sulfide, smoke, etc., to keep the room fresh for a long time. At the same time, it contains KAG+ silver ion antibacterial technology. The paint film releases active oxygen under the action of photocatalysis, and the antibacterial rate reaches 99%, which brings protection to the health of you and your family.

#### Product Features:

1. Purification, formaldehyde removal, mildew prevention and antibacterial.
2. High covering power, waterproof and breathable.
3. Strong scrub resistance, alkali resistance and stain resistance.
4. The paint film is tough, lasting and bright without fading.

#### Scope of application:

Suitable for interior decoration of villas, noble residences, high-end hotels, etc., including interior walls, ceiling gypsum boards, etc.



## KASTAR 22

### Nature Stone Coating



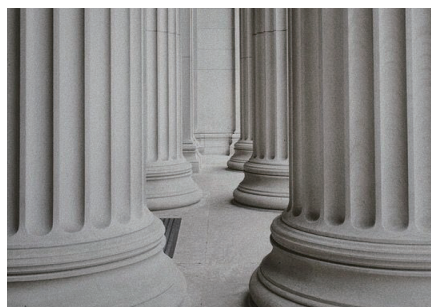
Nature Stone Coating is a new generation of imitation dry-hanging marble paint independently developed and produced by Kastar paint Company based on many years of experience in the construction of building exterior wall decoration paints. It leads the modern exterior wall decoration trend and is the first to introduce modern advanced paint making technology. The product has the characteristics of environmental protection, energy saving, lightweight, safety, weather resistance, stain resistance, acid resistance, alkali resistance, and scrub resistance. It provides a more efficient and environmentally friendly building exterior wall design and construction plan for high-end exterior wall decoration, and can be called the best choice for modern high-end building exterior wall decoration.

#### Product Features:

Top-grade simulation of 99.99% stone effect, high hardness, resistance to scratches, high density, more anti-fouling, natural colored sand, heat insulation reflection and thermal insulation technology, lifespan of more than 30 years.

#### Scope of application:

Commercial residences, villas, old house renovation, municipal projects, Roman columns, windows, frames and other surface paint base protection.





## KASTAR 23

### Fire Retardant Coating



Fire Retardant Coating are made from natural inorganic mineral materials as the base, with added long-lasting antibacterial agents, formulated using environmentally friendly recipes and antibacterial technology. They meet the A-class fire performance requirements for decoration materials, giving you an extra layer of peace of mind. When applied to the surface of mineral substrates, they penetrate into the substrate and undergo a silicification reaction, forming a hard silica layer that permanently bonds with the wall. These coatings have exceptional durability and stain resistance, with vibrant colors that remain lasting and bright.

#### Product Features:

Inorganic raw materials, natural and environmentally friendly; degrade formaldehyde, purify air; long-term antibacterial, release negative oxygen ions; permeable water, anti-corrosion and anti-mold; strong wash, super alkali resistance; weather resistant and crack-resistant, easy to maintain; high temperature resistant, A class fireproof.

#### Scope of application:

Suitable for medical buildings, subway/mall/cinema/theater/hotel and other densely populated places; suitable for garage, basement, balcony and other home dark and damp wall decoration protection.



## KASTAR 28

### Mineral Interior Wall Coating



It offers you three outstanding advantages: By maintaining the diffusion capacity of the substrate, it can contribute to a pleasant living environment, and its alkalinity prevents mold growth. Thanks to the modern combination of raw materials, application is also effortless and energy-saving, so you remain productive and gain valuable capacity for follow-up jobs. It gets even better, because Liquid Glass technology guarantees reliable adhesion to almost all substrates.

#### Characteristics:

1. Inorganic coating, Class A non-combustible material.
2. Class 0 mildew resistance, inhibits mildew growth.
3. Highly environmentally friendly, green building materials.
4. Tough paint film and scrub-resistant.

#### Applications:

It is suitable for places with fire protection design requirements, such as commercial spaces, hotels, office buildings, transportation hubs, high-rise residential buildings, schools, hospitals, factories, underground spaces, fire escape routes, etc.





## KASTAR 66

### Anti-condensation Coating



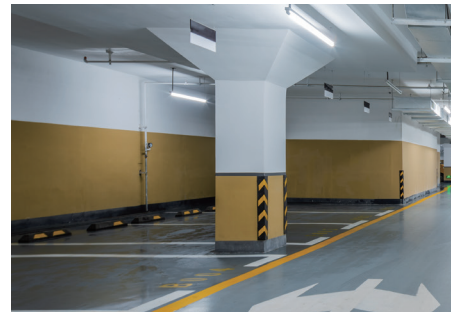
This product is a green, environmentally friendly, odorless functional coating with a full coating that is easy to construct and has excellent thermal insulation, mildew resistance, anti-condensation properties and decorative effects.

#### Characteristics:

1. Odor-free technology is more environmentally friendly, color-adjustable, and easy to apply;
2. High hiding power and adhesion, not easy to fall off or crack;
3. Effectively inhibit condensation to achieve antibacterial, anti-mildew and anti-mite effects;
4. Thermal insulation, which helps reduce energy consumption.

#### Applications:

It is suitable for indoor wall decoration in homes, schools, hospitals, factories, entertainment venues, etc., as well as anti-mildew and anti-condensation treatment and decoration of interior walls in underground spaces.



## KASTAR 67

### Thermal Insulation Coating



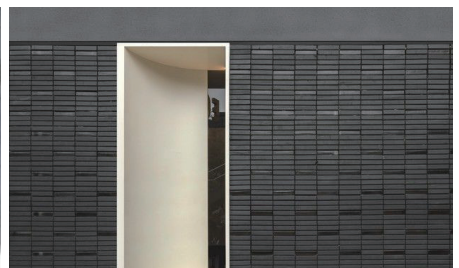
The product uses a functional coating that combines odorless emulsion with inorganic nano-functional materials. It is applied to the surface of objects to form a three-dimensional network hollow structure, which makes the objects have heat insulation, mildew resistance, anti-condensation and noise reduction functions, improves the indoor living environment, and achieves the goals of energy saving, consumption reduction, mildew resistance and anti-condensation.

#### Product Features:

1. Odor-free technology, making the room fresher and more environmentally friendly
2. Thermal insulation, helping to reduce energy consumption
3. Raising the wall dew point temperature to prevent condensation and mildew
4. Reducing the diffusion of sound wave amplitude to achieve noise reduction effect

#### Scope of application:

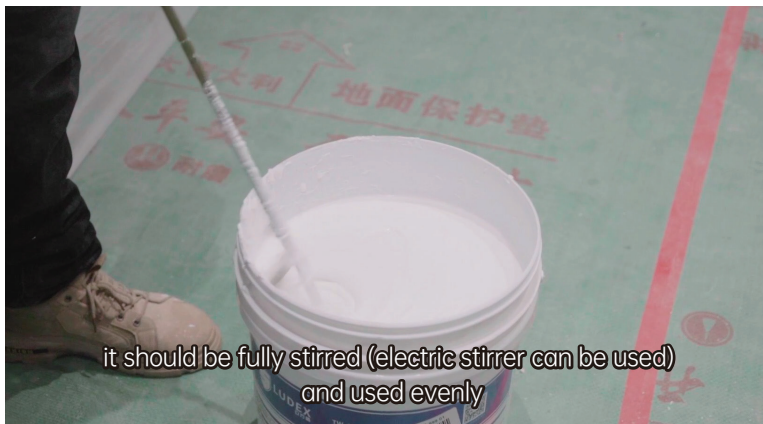
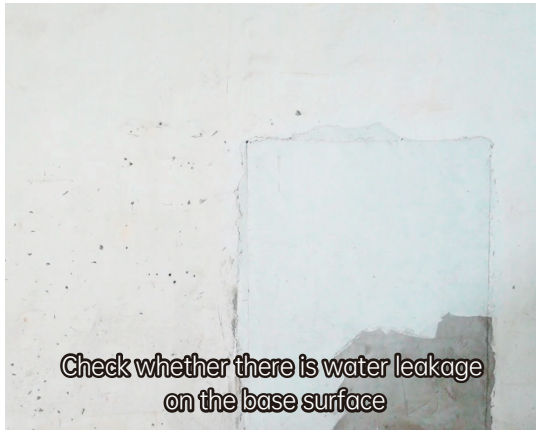
1. In the construction field, it is used for wall insulation to achieve energy saving and consumption reduction, solve wall condensation, and prevent mildew;
2. In the industrial field, it is used for high-temperature pipes, equipment, and containers to effectively inhibit heat radiation and heat loss and prevent surface exposure;
3. In other fields, it is used for insulation and anti-condensation treatment in air-raid shelters, nuclear power plants, hydropower plants, etc.





## Construction method

1. Base inspection. Check whether there is water leakage on the base surface. If there is, waterproof it before construction;
2. Base treatment. Remove the protrusions on the surface of the base, clean up the dust and debris thoroughly, and keep the base surface dry and clean;
3. Multiple coats of paint. When spraying, use a sprayer that can be used for high viscosity. If you need to achieve better performance, you can increase the number of sprays and increase the coating thickness;
4. Inspection, trimming, and acceptance. Check the coating surface and trim the weak parts and coating sagging parts.



## Storage and transportation

1. Storage conditions: Store in a cool, dry place, sealed, and stored in a ventilated and dry place above 5°C. Avoid direct sunlight to prevent freezing in winter;
2. Shelf life: Under good storage conditions, the shelf life of the original sealed condition is 12 months;
3. Transportation: Transport as non-flammable liquids;
4. Abandonment regulations: Unused waste and solidified waste are recommended to be handled by qualified treatment agencies or in accordance with local laws and regulations. Do not pour into water sources or soil.



# KASTAR 27 All Purpose Acrylic Primer

## KASTAR 27

All Purpose Acrylic Primer



All Purpose Acrylic Primer formulated with modified pure acrylic copolymer emulsion, high-efficiency film-forming aids and alkali-resistant stabilizers.

### Product Features:

Seals substrate pores, blocks substrate alkali & salt leaching, strengthens loose substrate hardness. Boosts topcoat adhesion & application uniformity, enhances topcoat color reproduction, and extends coating scrub resistance & service life.

### Scope of application:

For pretreatment of indoor concrete, cement mortar, putty and other substrates.



**Water-based  
Alkali Resistant**



**Multi-surface  
Versatility**



**Anti-mold &  
Anti-bacterial**



**Eco-friendly**



## Construction method

1. Construction method: Roll coating or spraying.
2. Construction conditions: when manual roller spraying, the effective coating amount of wet film is about 0.25~0.3kg/m<sup>2</sup>.
3. Construction environment: temperature 5~40°C, humidity less than 80%.
4. The base material was 5-40°C, and the moisture content was less than 10%.

## KASTAR 27 Physical properties

Product Type	All-Effect Primer For Interior Walls To Resist Alkali Penetration
Coating Appearance	Viscous Fluid, Can Be Mixed With Water In Any Proportion
Relative Density	1.25±0.03
Solid Content	50±1%
Ph Price	8.0-9.5
Storage Period	24 Months. Storage Method: Store In a Well-Ventilated, Light-And
Storage Method	Heat-Shaded Environment At 5-40°C.



# Floor Coatings





# KASTAR 51 3 in 1 Epoxy Color Sand Floor Coating

## KASTAR 51

3 in 1 Epoxy Color Sand Floor Coating



Kastar51 3 in 1 Epoxy Color Sand Floor Coating is two component fast curing epoxy paint for floor. It's a high-end decorative functional floor material, made of epoxy resin as the main resin, combined with a high-performance curing agent and composite lightweight colored sand. After construction, it can create natural stone-like texture, and automatically levels to a mirror-like finish, which is resistant to dust, pressure, and slip.

### Product Features:

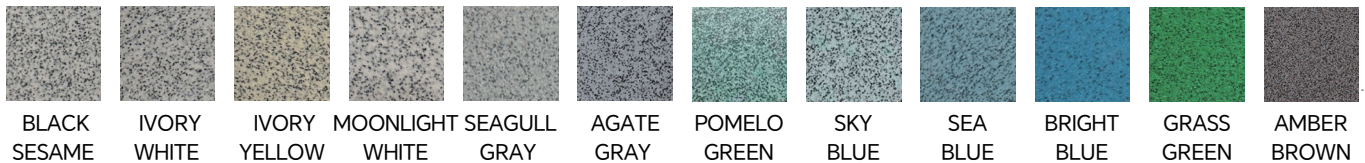
- Self leveling
- High hardness
- Waterproof and Non-slip
- High compressive strength and excellent wear resistance

### Scope of application:

Suitable for household flooring, residential flooring, office flooring, underground garage flooring, basement parking floor system, factory workshop flooring, hotel flooring, hotel ground surface, etc.



## Color Swatch



## Construction method

1. Clean and dry the substrate thoroughly to ensure it is free of dust and oil stains.
2. Mixing Components A & B evenly by using a mixing rod.
3. Pour the material onto a clean surface, let it self-level for 30 seconds, then, use a trowel to spread and smooth.
4. After construction, wait 12-16 hours before walking on it. Avoid water exposure within 7 days.

## Typical characteristics

Appearance	Sandy liquid & Semi-transparent liquid
Density (g/cm <sup>3</sup> )	1.8-2.2
Viscosity (KU)	85-95
Tensile Bond Strength (MPa)	> 2.5
Solid Content (%)	> 95
Pencil Hardness	> 4H
Warranty Period	1 years

\*Tips: Unless intentionally damaged by human error, this product can provide over 15 years of service.



## KASTAR 521

Solvent-free Epoxy Smooth Coating



Kastar 521 Solvent-free Epoxy Smooth Coating is a premium, two-component, solvent-free epoxy floor coating, specifically designed for high-build smooth finish and epoxy mortar systems. It offers a dense, hard-wearing surface with excellent adhesion to concrete and terrazzo substrates.

Formulated with high solid content and zero volatile organic compounds (VOCs), it ensures superior film formation, outstanding durability, and environmentally friendly application while providing a sleek, easy-to-clean semi-gloss or gloss finish. It is an ideal solution for facilities requiring a balance of aesthetic appeal and industrial durability.

### Product Features:



Solvent-free & Eco-friendly



Dense & Wear-resistant Film



Excellent Hiding Power



Moisture-proof Mold-resistant & Easy to Clean



Easy Application & Cost-effective



### Scope of Application :

**Manufacturing Hubs:** Production workshops for electronics, appliances, machinery, and textiles.

**Logistics & Storage:** Warehouses, distribution centers, and loading docks.

**Commercial Spaces:** Underground parking garages, shopping malls, and large showrooms.

**Administrative Areas:** Corporate offices, corridors, and utility rooms.

## KASTAR 522

Solvent-free Epoxy Self-leveling Coating



Kastar 522 is a high-grade, two-component, solvent-free epoxy self-leveling system designed for environments requiring the highest standards of hygiene and structural integrity. Its advanced flow properties allow it to settle into a mirror-like, seamless surface that is naturally dust-free and antimicrobial. Specifically designed to withstand heavy mechanical loads and rigorous chemical exposure, Kastar 522 provides a robust, "zero-defect" flooring solution that fully complies with stringent GMP and ISO cleanroom certifications.

### Product Features:



Superior Self-leveling Properties



High Gloss & Mirror-like Finish



Outstanding Compressive & Impact Resistance



Excellent Chemical Resistance



Seamless Surface with Integrated Aesthetics



### Scope of Application :

**Controlled Environments:** Microelectronics, semiconductor cleanrooms, and high-precision laboratories.

**Medical & Healthcare:** Pharmaceutical plants (GMP compliant), blood product facilities, and operating theaters.

**Food & Beverage:** Food processing plants, dairies, and commercial kitchens requiring frequent sanitization.

**Premium Decorative:** High-end residential interiors, modern office lobbies, and educational institutions.



# Anti-Corrosion Coatings





## KASTAR 76

### Silicone Anti-Corrosion Coating



Kastar76 Silicone Anti-Corrosion Coating is single part silicone based coating, very easy to construct. It's with good adhesion to the surface of the substrate, forming Si-O bonds on the surface, which are stable against oxygen, ozone and ultraviolet light. It's with great performance in high & low temperature resistance, good recoatability, excellent elasticity and elongation, which can isolate corrosive gases and liquids in the environment to achieve excellent anti-corrosion effect.

#### Product Features:

- Single component
- Moisture curing at normal temperature
- Waterproof and weatherproof
- Excellent performance in anti-corrosion

#### Scope of application:

Widely used in chemical industry, steel industry, coastal city municipal facilities, and others needed anti-corrosion protection.



## KASTAR 79

### Super Silicone Anti-Corrosion Coating



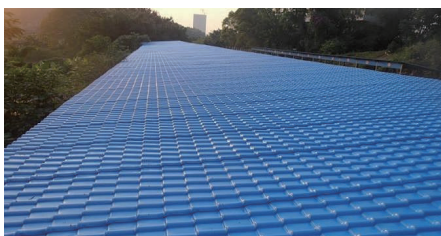
Kastar79 Super Silicone Anti-Corrosion Coating is one component solvent-free moisture curing coating. It is with high elasticity, medium hardness, high weather resistance, exceptional adhesion and durability, coating with self-cleaning performance against rainwater. It can achieve the function of anti rust and further preventing corrosion on the corroded and rusty steel surface, that means, the rusted steel surface can be painted directly after simple cleaning, and it can prevent coating inside further corrosion.

#### Product Features:

- High elasticity & strength
- Excellent environmental corrosion resistance
- Great adhesion to most substrates without primer
- For rusty steel surfaces, no need rust removal

#### Scope of application:

Roof repair of factories in chemical parks and coastal industrial parks, protection of metal or concrete surfaces in neutral or weakly acidic industrial water storage tanks, steel structure production lines & stairways, outdoor chemical pipelines and kettle surfaces, etc.





# Other Functional Coatings





## KASTAR 75

### Anti-static Coating



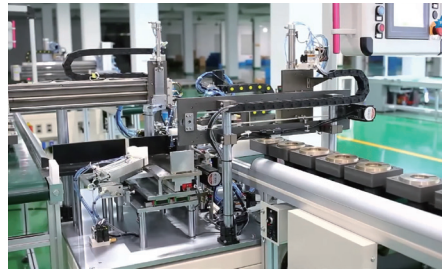
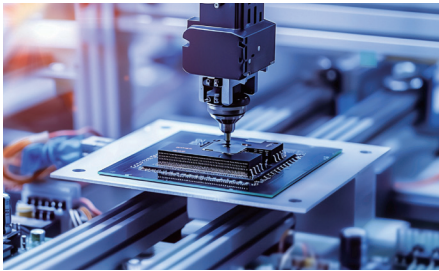
Kastar75 Anti-Static Coating is one part silicone resin coating. It's with excellent performance in resistance to oil, corrosion, acid and alkali, excellent anti dust and anti-static effects. And also, it's with resistivity between  $1 \times 10^6 \sim 1 \times 10^{12}$ , adjustable and long-term effective, equivalent to semiconductor materials, and it can effectively prevent and guide the accumulation of static charges on the surface of materials, thus it's best option for anti-static protection. It works very well at low humidity environments (25 °C), too.

#### Product Features:

- One-component
- Waterproof & weatherproof
- Good adhesion to base materials
- Super effect in anti dust & anti-static

#### Scope of application:

Widely used in industries such as semiconductor, military, LCD, electronic equipment, electronics and electrical, communication manufacturing, precision instruments, optical manufacturing, pharmaceutical, and biotechnology.



## KASTAR 24

### Water-based Wood & Metal Coating



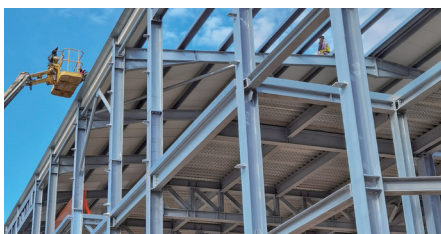
Kastar24 Water-based Wood & Metal Coating is one part coating made from modified acrylic emulsion. It offers excellent adhesion and strength, with soft, delicate sheen on the base material.

#### Product Features:

- Excellent adhesion
- High hardness
- Waterproof
- Resistance to alcohol, heat
- Odorless, environmentally friendly and non-toxic

#### Scope of application:

Suitable for painting various substrates such as steel structure protection, color change of wood furniture, color change of ceramic tiles, renovation of colored tiles, walls and floors, etc.





# KASTAR 25 Water-Based Firestop Acrylic Sealant Spray

## KASTAR 25

Water-Based Firestop Acrylic Sealant Spray



It is a kind of one-component, borax-free, high solid content and low VOC intumescent fireproof coating, which is the most advanced water-based fireproof coating for wire and cable in China.

### Product Features:

High fire expansion, high expansion ratio, good flame retardant effect; environment friendly, ultra-low VOC, no odor, thin coating, good flexibility, insulation and anti-corrosion.

### Scope of application:

This product is widely used in the flame retardant treatment of power cables in power plants, mines, telecommunications and civil buildings. It can also be used for fire protection of combustible substrates in wooden structures, metal structures and underground projects.



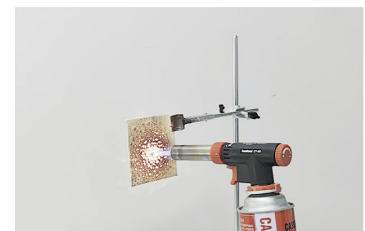
## Fire retardant coating combustion test



1.Paint thickness 1.28mm



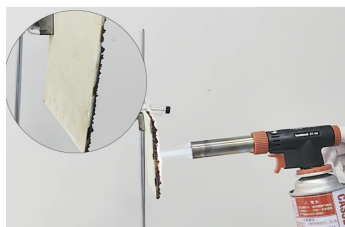
2.Fire gun burning



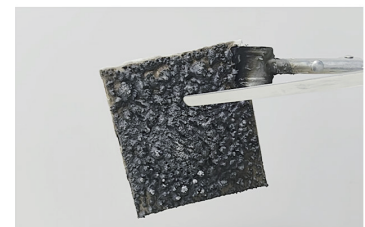
3.30s



4.50s



5.Burning for 60s No change on the back of the template



6.After burning, a ceramic shell is produced



# KASTAR 26 Glow Luminous Coating

## KASTAR 26

### Glow Luminous Coating



Energy-storage luminescent coatings are functional industrial coatings made primarily from high-brightness, long-lasting rare earth luminescent materials, formulated with a water-based or solvent-based resin system. The coating rapidly absorbs natural or artificial light under bright conditions and maintains a stable glow in the dark, exhibiting excellent weather resistance and adhesion. They are widely used in industrial and public spaces requiring luminous properties, such as safety signs, corridor guides, and nighttime warnings.

#### Product Features:

1. It features self-sustaining light storage, long-lasting luminescence, and requires no power source.
2. Safe and environmentally friendly, free of radioactive elements and heavy metals, and non-toxic.
3. The coating is dense, with strong adhesion, and excellent water resistance, abrasion resistance, and weather resistance.
4. It emits various colors, commonly yellow-green, blue-green, and sky blue, and can continue to glow for 6-12 hours in the dark after exposure to light.
5. It dries quickly, is easy to apply, and is suitable for various application methods such as brushing, rolling, or spraying.



**Autonomous Light Storage**



**Dense Coating**



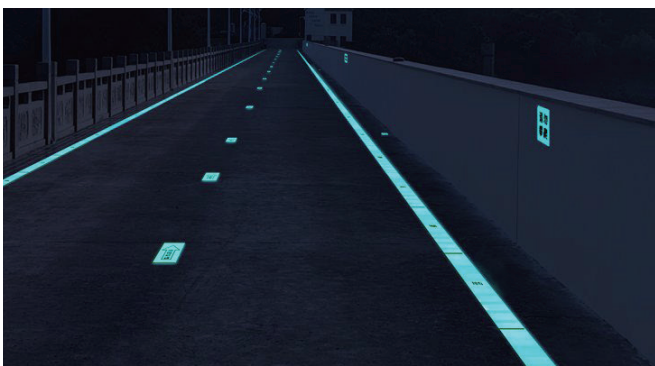
**Variety of Luminous Colors**



**Environmentally Friendly and Energy-saving**

#### Scope of application:

1. Suitable for use on metal, concrete, and wood surfaces in subway stations, tunnels, stairwells, underground parking garages, emergency evacuation signs, safety exits, chemical areas, and other similar locations.
2. Also suitable for use on children's playgrounds, luminous lines, billboards, and reflective floor decorations.

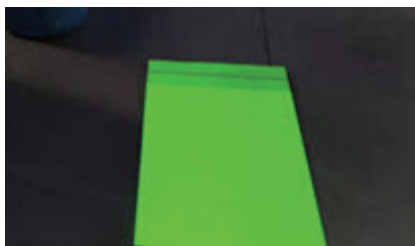
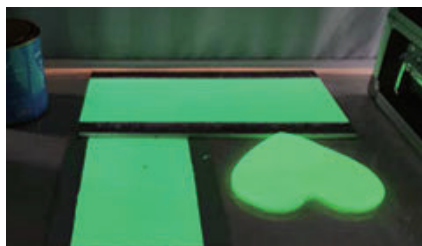




## Absorbing and storing light



## Luminous and shiny



## Construction method:

### 1. Substrate Preparation

- For concrete: sandblast/grind; for wood: smooth along grain to remove burrs; for metal: derust and degrease.
- Control substrate moisture content  $\leq 6\%$  and pH value  $\leq 10$ .

### 2. Applying Sealer Primer

- Stir well, then spray/roll 1 coat; dosage:  $0.08-0.12 \text{ kg/m}^2$ .
- Dry for 12 hours, then lightly sand with 400-grit sandpaper to enhance adhesion.

### 3. First Luminous Layer

- Stir for 3-5 minutes; water dilution  $\leq 10\%$  of total volume (if needed).
- Apply by spraying (nozzle 0.3-0.5mm, distance 15-20cm), rolling or brushing.
- Dry film:  $25-35\mu\text{m}$ ; dosage:  $0.12-0.15\text{kg/m}^2$ ; air-dry  $\geq 2$  hours.

### 4. Second Luminous Layer

After first layer dries, spray in staggered directions; dry film:  $25-35\mu\text{m}$ ; total thickness  $\leq 80\mu\text{m}$ .

### 5. Topcoat (Recommended)

Stir well, spray 1-2 coats; dosage:  $0.08-0.12\text{kg/m}^2$ ; dry film: approx.  $20\mu\text{m}$ .

### 6. Curing & Luminescence Test

- Air-cure  $\geq 48$  hours; after 72 hours, test with strong light (10-15 mins) to check brightness.
- Avoid stepping, water contact or covering during curing.




## Physical properties:

Solid fraction, %	47-49
Polymer type	Phenylpropane
pH	8-10
Average particle size, micrometers	0.1-0.2
Brinell viscosity, cP (RVT. # 2 60rpm @ 23 ° C)	$\leq 2000$
Tg, °C	36
Minimum film-forming temperature, ° C	About 38



## **KATER IMPORT & EXPORT CO., LTD**

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